



# KORISNIČKI PRIRUČNIK ZA **SPARKSHAREBOXEV I CUBE**

# **PRIRUČNIK ZA INSTALACIJU**



**BOXEV**

# SADRŽAJ

1. Upozorenja i sigurnosne napomene	4
• Opća sigurnosna upozorenja za BOXEV	4
• Važne sigurnosne napomene prije nastavka	7
2. Samoprovjera i oporavak	9
3. Podjela opterećenja	9
4. Minimalni zahtjevi	10
5. Potrebni alati	11
6. Što se nalazi u kutiji?	13
7. Koraci za instalaciju	15
8. Strujna shema ožičenja	18
9. Scenariji rada BOXEV-a	19
10. Opis LED indikacija	22
11. Rješavanje problema	25
12. Održavanje	26

# UPOZORENJA I SIGURNOSNE NAPOMENE

## OPĆA SIGURNOSNA UPOZORENJA ZA BOXEV

**Pročitajte sve upute prije upotrebe:** Pobrinite se da u potpunosti razumijete sve upute za instalaciju i uporabu BOXEV-a prije nego što ga instalirate i počnete koristiti.

**Zaštite napojnog kruga:** Napojni krug BOXEV-a mora biti adekvatno uzemljen. Napojni krug BOXEV-a mora biti zaštićen odgovarajućom zemljospojnom zaštitom (FID sklopka, tip-B, 30mA) i osiguračem nazivne struje u skladu s presjekom napojnog kabela, i podešenom maksimalnom strujom BOXEV-a (preporučena B karakteristika).

**Uzeti u obzir uzemljenje:** BOXEV mora biti uzemljen putem trajnog sustava za uzemljenje ili uzemljivačkog vodiča. Napojni krug BOXEV-a mora biti zaštićen odgovarajućim RCCB-om (Prekidač sa zemljospojnom zaštitom) i osiguračem/MCB-om (Miniature Circuit Breaker). RCCB mora biti tipa B i imati nazivnu struju od 30 mA.

**Opasna mjesta:** Nemojte instalirati ili koristiti BOXEV u blizini zapaljivih, eksplozivnih ili agresivnih materijala, kemikalija ili para.

**Isključite napajanje prije servisiranja:** Osigurajte beznaponsko stanje napojnog kruga BOXEV-a (npr spuštanjem automatskog osigurača u napojnom krugu) prije instalacije, čišćenja i servisiranja BOXEV-a kako biste izbjegli opasnost od električnog udara.

**Parametri rada:** BOXEV koristite isključivo unutar specificiranih parametara radnog napona, struje i okolišnih uvjeta.

**Izloženost tekućinama:** Nikada ne prskajte vodu niti bilo koju drugu tekućinu izravno na BOXEV. Također, nemojte prskati tekućinu na ručku punjača niti ju uranjati u tekućinu. Uvijek sigurno odložite ručku za punjenje na kućište punjača i zaklopite ju gumenim čepom kako biste spriječili nepotrebnu izloženost vlazi ili kontaminaciji.

**Prestanite koristiti ako je oštećen:** Prestanite koristiti BOXEV ako pokazuje bilo kakve znakove oštećenja, poput pukotina, trošenja ili neispravnosti.

**Ne pokušavajte popravke:** Nemojte rastavljati, popravljati, mijenjati ili modificirati punjač BOXEV-a prije nego ste se detaljno upoznali s korisničkim uputama BOXEV-a. U slučaju potrebe za popravkom ili servisom BOXEV-a obratite se certificiranom Sparkshare partneru. Ako se ipak odlučite samostalno popravljati/servisirati BOXEV, za sve nejasnoće oko popravaka ili servisa BOXEV-a obratite se proizvođaču.

**Postupajte s oprezom:** Prilikom transporta BOXEV-a, izbjegavajte izlaganje snažnim udarcima, silama ili naprezanjima (kao što su uvijanje, povlačenje ili gaženje kabela) kako biste spriječili oštećenje.

**Strani predmeti:** Nemojte umetati strane predmete u bilo koji dio BOXEV-a.

**Interferencija s medicinskim uređajima:** Rad BOXEV-a može ometati funkcionalnost medicinskih ili implantiranih elektroničkih uređaja poput pacemakera. Prije korištenja punjača BOXEV, konzultirajte se s proizvođačem vašeg medicinskog uređaja kako biste osigurali sigurnu upotrebu.

**Neispravna instalacija:** Neispravna instalacija i testiranje BOXEV-a mogu potencijalno oštetiti bateriju vozila ili sam punjač.

**Izbjegavajte ekstremne temperature:** BOXEV se ne smije koristiti izvan temperaturnog raspona od -30°C do +50°C.

**Izbjegavajte izravnu sunčevu svjetlost i ekstremne vremenske uvjete:** Izbjegavajte izlaganje BOXEV-a izravnoj jakoj kiši, snijegu ili drugim ekstremnim vremenskim uvjetima.

**Zaštita kabela:** Pobrinite se da je kabel BOXEV-a postavljen na način koji sprječava gaženje, prelaženje, spoticanje ili bilo koji drugi način na koji se može oštetiti ili izložiti naprezanju.

**Čišćenje:** Nemojte koristiti otapala za čišćenje bilo kojeg dijela BOXEV-a. Povremeno obrišite vanjski dio BOXEV-a, kabel za punjenje i ručku punjača čistom, suhom krpom kako biste uklonili nakupljenu prljavštinu i prašinu.

**Nadstrešnica:** Ukoliko je BOXEV na otvorenom, preporučuje se postavljanje nadstrešnice iznad BOXEV-a kako bi se zaštitio od izravne izloženosti kiši, snijegu, ledu i suncu. Time se osigurava dugotrajan i pouzdan rad uređaja u svim vremenskim uvjetima.

!

- Upozorenje:** Koristite samo napon 230/400 V, 50Hz kao izvor napajanja BOXEV-a.
- Upozorenje:** Neispravna instalacija i uporaba BOXEV-a može potencijalno oštetiti bateriju vozila i/ili sam BOXEV. Bilo koja šteta koja nastane možda neće biti pokrivena garancijom.
- Upozorenje:** Nemojte koristiti BOXEV izvan temperaturnog raspona od -30°C do +50°C.
- Upozorenje:** Osigurajte odgovarajuću ventilaciju i držite BOXEV slobodnim od prepreka ili vanjskih faktora koji mogu uzrokovati pregrijavanje ili smanjene performanse.

## VAŽNE SIGURNOSNE NAPOMENE PRIJE NASTAVKA

Budite oprezni tijekom instalacije kako biste izbjegli oštećenje bilo kojih sklopova ili komponenti unutar BOXEV-a.

Pobrinite se da je dolazno napajanje sigurno isključeno prije spajanja BOXEV-a.

Obratite posebnu pozornost da je PE (zaštitno uzemljenje) stezaljka pravilno spojena te da je zaštitno uzemljenje napojnog kruga adekvatno izvedeno.

Nemojte ostavljati dijelove poput vijaka, brtvi, podložnih matica ili drugih metalnih predmeta unutar BOXEV-a.

Strogo je zabranjeno maloljetnicima ili osobama s ograničenim sposobnostima prići BOXEV-u kako bi se spriječile moguće ozljede.

Strogo je zabranjeno koristiti BOXEV ako su kabeli za punjenje oštećeni, puknuti, istrošeni, slomljeni ili ako su bakrene žice izložene. Ako primijetite bilo kakvu štetu, molimo vas da nas kontaktirate i naručite novi dio putem SparkShare webshop-a što je prije moguće.

Preporučujemo da zamjenu obavi kvalificirano osoblje. Ako se ipak odlučite na samostalni popravak svog uređaja, važno je da se detaljno upoznate s ovim uputama, posebice s poglavljima: Upozorenja i sigurnosne napomene, Što se nalazi u kutiji, Koraci za instalaciju i Strujna shema ožičenja.

Preporučuje se da se rutinski sigurnosni pregledi punjača BOXEV provode barem jednom tjedno.

Maksimalna snaga BOXEV-a je 22 kW ili 32A pri 400V AC trofaznoj struji.

OPIS	SPECIFIKACIJA
Napon	230/400 V
Struja	32 A (po fazi)
Frekvencija	50 Hz
Duljina kabela	6m i 10m
Dimenzije	38x38x14
Težina	5 kg
Radna temperatura	-25 -50 C
Temperatura skladištenja	-40 -75 C
Odobrenja agencija	CE

# **SAMOPROVJERA I OPORAVAK**

Ručno testiranje i resetiranje nije potrebno.

Ako dođe do kvara zemljospoja, vanjska FID sklopka ili osigurač otklanjaju kvar. Kada je kvar otklonjen i napajanje ponovno uspostavljeno, BOXEV će se uključiti i ponovno pokrenuti. Ako je do prekida napajanja doško tokom punjenja, BOXEV će ponovno pokrenuti punjenje.

## **PODJELA OPTEREĆENJA**

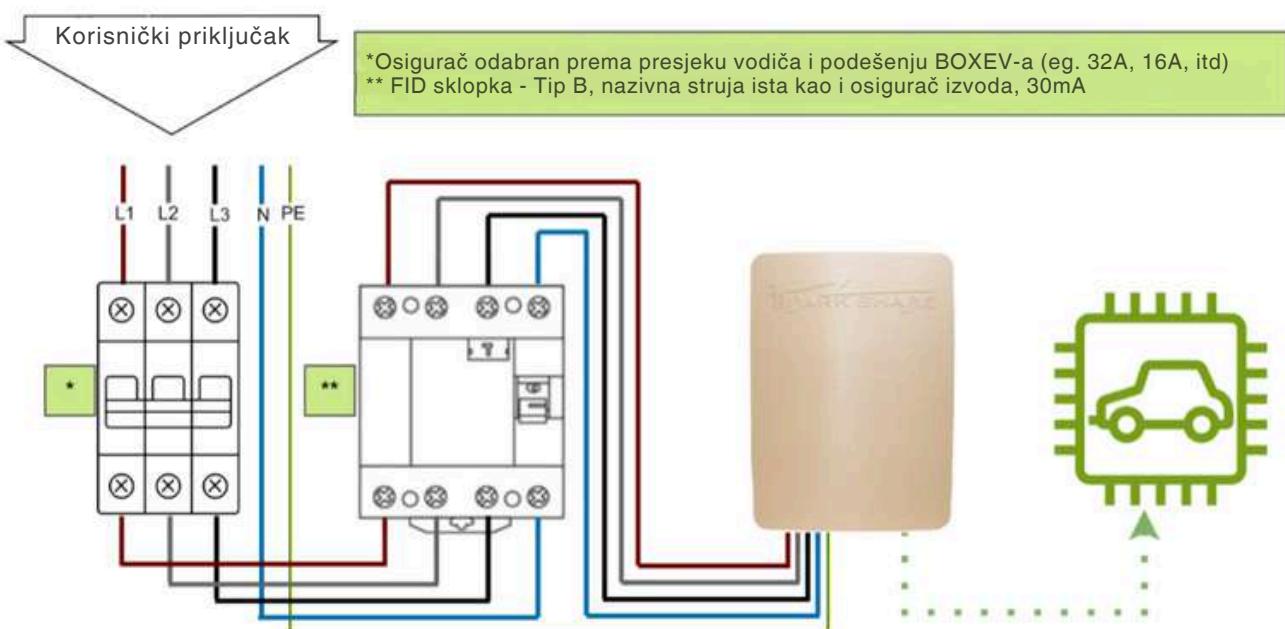
SparkShare "Load management" omogućava korisnicima napajanje više SparkShare punjača iz istog napojnog kruga uz određivanje najveće ukupne struje punjenja svih SparkShare punjača u navedenom krugu, pružajući vlasnicima vozila sigurnost da mogu puniti više vozila istovremeno bez preopterećenja kruga. Više SparkShare punjača komunicira međusobno kako bi podijelili opterećenje između vozila, osiguravajući da opterećenje nikada ne prelazi dopušteni napon kruga.

# MINIMALNI ZAHTJEVI

Instalacija BOXEV-a zahtijeva da:

1. Izračunate postojeće električno opterećenje kako biste odredili maksimalnu radnu struju izvoda kojim želite instalirati BOXEV.
2. Osigurate minimalni pad napona postavljanjem BOXEV-a što bliže razvodnoj kutiji.
3. Prikupite sve potrebne dozvole od nadležnih lokalnih vlasti i potvrdite da je inspekcija nakon završene instalacije obavljena od strane kvalificiranog električara.
4. Koristite samo bakrene vodiče.
5. Koristite vodiče koji su dimenzionirani u skladu s lokalnim propisima o elektroinstalacijama. Odabrani kabel mora biti sposoban podnijeti stalna opterećenja do 32A.
6. Koristite zaštitne uređaje. Uređaj za zaštitu izvoda mora biti odabran tako da uključuje odgovarajuću zemljospojnu zaštitu (FID sklopka) i zaštitu od preopterećenja/kratkog spoja (osigurač) prema odabranom električnom opterećenju.

Napomena: Posavjetujte se s električarom kako biste osigurali da instalacija udovoljava lokalnim propisima.



# POTREBNI ALATI

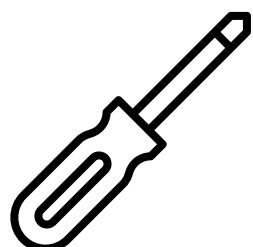
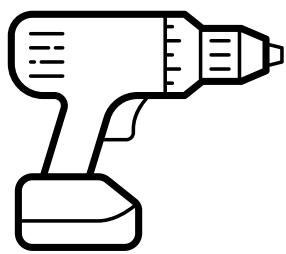
Za instalaciju BOXEV-a potrebni su sljedeći alati:

## Obavezno:

Električna  
bušilica

Kliješta za rezanje žice  
i skidanje izolacije

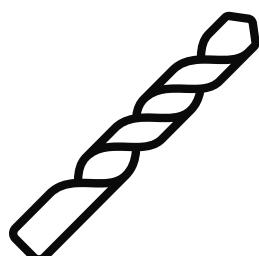
Križni odvijač



Svrdlo promjera  
8 mm

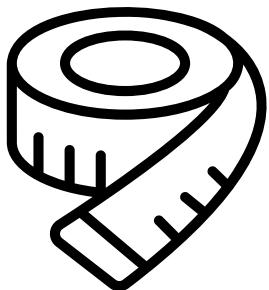
Vijak 3x8 mm  
+ plastični tipl

10 centi

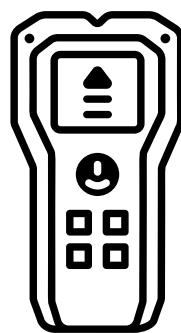


## Opcionalno

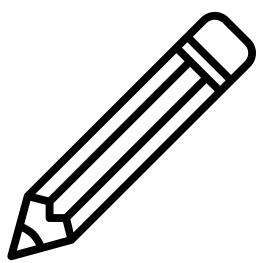
Mjerna traka



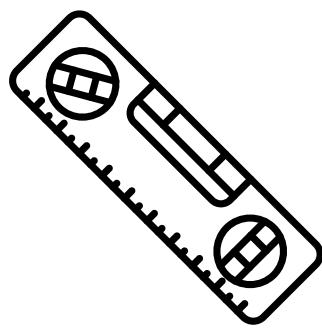
Detektor kabela



Olovka



Vodena vaga



# ŠTO SE NALAZI U KUTIJI?

## Stavka

## Opis

## Količina



Brošura za instalaciju

1



Kratki vodič

1



Unutarnja kutija

1



Ukrasna maska

1



Kabel Type 2

1



Plastična  
zakovica

3

# KORACI ZA INSTALACIJU

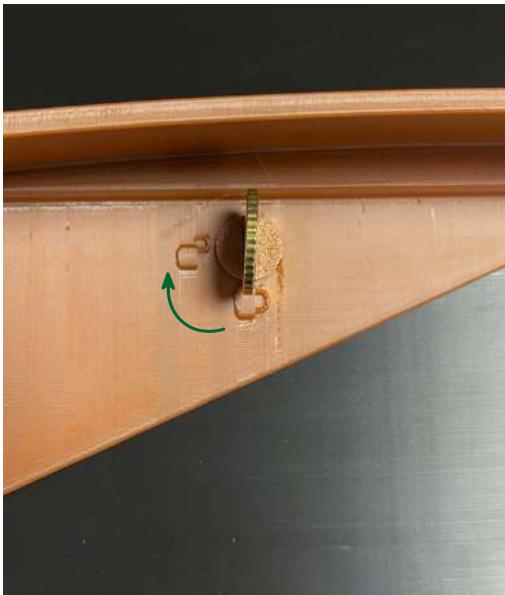
Upozorenje: Nakon što provedete instalaciju do željene pozicije, spustite/isključite odgovarajući osigurač u glavnom krugu, ISKLJUČITE NAPAJANJE I POTVRDITE DA JE BEZNAPONSKO STANJE PRIJE NASTAVKA.

1. Otvorite kutiju (detalji u nastavku) i uzmite brošuru za instalaciju, na kojoj su označene rupe za bušenje i točke za montažu kutije. Za osiguranje pravilnog postavljanja kutije, preporučuje se korištenje vodene vase.
2. Označite točke za bušenje na zidu. *Preporučuje se korištenje detektora kabela kako biste provjerili ima li električnih instalacija, vodovodnih cijevi ili drugih prepreka iza zida.*
3. Izbušite rupe odgovarajućim svrdлом, preporučena veličina 8 mm.
4. Umetnite plastične tiple u izbušene rupe.
5. Uzmite BOXEV uređaj.
6. Odvrnите dvije plastične zakovice sa stranica uređaja kako biste oslobodili ukrasnu masku.
7. Pažljivo odvojite ukrasnu masku i isključite LED svjetla u sredini poklopca. Iskopčajte kablić za upravljanje LED diodama.
8. Odvrnute plastičnu zakovicu koja osigurava donji poklopac na dnu uređaja.
9. Pažljivo uklonite donji poklopac povlačenjem prema dolje.
10. Postavite kutiju na zid, poravnavajući je s prethodno izbušenim rupama koristeći brošuru za instalaciju.
11. Pričvrstite kutiju na zid vijcima.
12. Provucite napojni kabel kroz rupu na dnu kutije.
13. Spojite žice iz napojnog kabela na odgovarajuće stezaljke: L1, L2, L3, N, PE. (Pogledajte poglavlje Elektrotehnička shema ožičenja)
14. Vratite donji poklopac na mjesto povlačenjem prema gore.
15. Ponovno pričvrstite plastičnu zakovicu kako biste osigurali donji poklopac.

18. Ponovno spojite konektor za LED diode (obratite pozornost na boje žica).
19. Ponovno pričvrstite ukrasnu masku na kutiju.
20. Pričvrstite dvije plastične zakovice sa stranica uređaja kako biste osigurali poklopac.
21. Uključite napajanje uređaja na prethodno isključenom osiguraču.

## POSTUPAK OTVARANJA KUTIJE

1.



Umetnите kovanicu od 10 centi u otvor sa strane, a zatim je okrenite u smjeru "zaključano-otključano", kao što je prikazano na fotografiji. Nakon što ste otključali plastičnu zakovicu, pažljivo ju izvucite iz BOXEV-a.

Postupak ponovite s druge strane BOXEV-a.

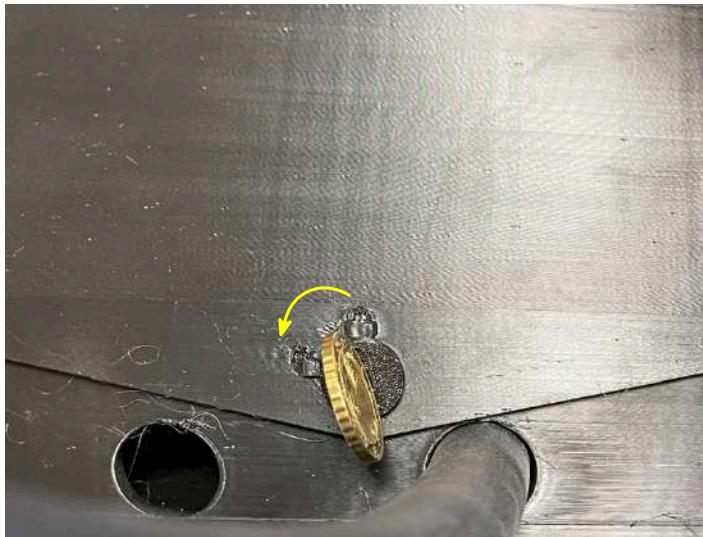
2.



Kada izvadite obje plastične zakovice, skinite ukrasnu masku pažljivim povlačenjem prema sebi.

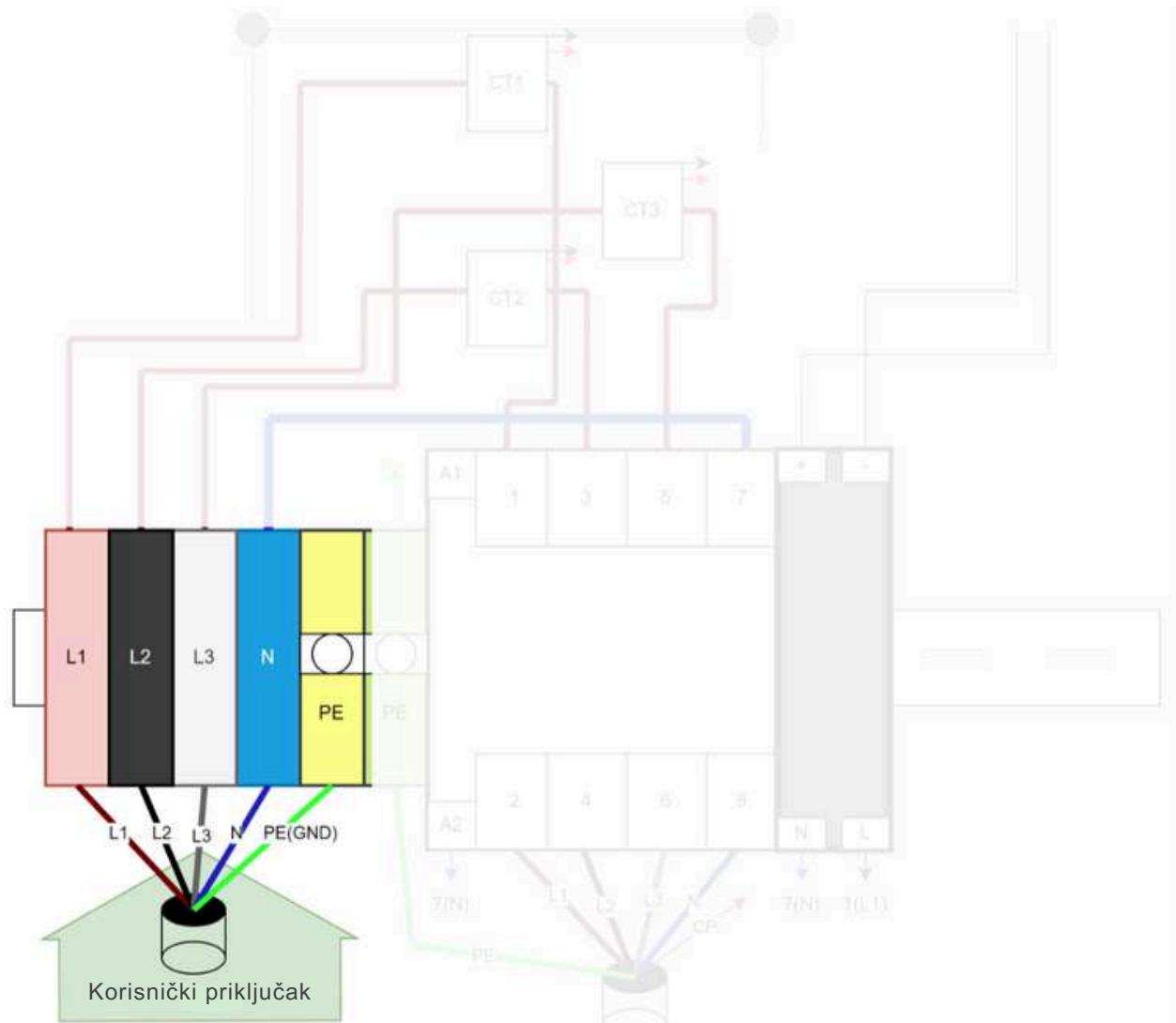
Odvojite ukrasnu masku od donjeg dijela laganim povlačenjem na mjestu označenom na fotografiji (odspajanje konektora LED dioda).

**3.**



S donje strane unutrašnje kutije BOXEV-a, nalazi se plastična zakovica. Umetnите kovanicu od 10 centi i okrenite je u smjeru prikazanom na fotografiji. Nakon otključavanja, pažljivo izvucite plastičnu zakovicu te otključani dio unutrašnjeg dijela kutije povucite prema sebi.

# STRUJNA SHEMA OŽIČENJA



# SCENARIJ RADA BOXEV-A

**! STRUJA PUNJENJA BOXEV-A OGRANIČENA JE NA 6A DOK SE UREĐAJ NE POVEŽE PUTEM SPARKSHARE APLIKACIJE.**

## SCENARIJ 1: KORIŠTENJE SVIH POGODNOSTI SPARKSHARE MREŽE

Ako želite koristiti sve funkcionalnosti koje SparkShare mreža omogućuje, uključujući javno dostupan punjač u mobilnoj aplikaciji, nadzor i kontrolu putem mobilne aplikacije i/ili SparkShare portala, dijeljenje električne energije i druge mogućnosti, potrebno je:

1. Instalirati BOXEV i uključiti uređaj.
2. Preuzeti SparkShare mobilnu aplikaciju skeniranjem QR koda koji se nalazi na brošuri za instalaciju.
3. Kreirati račun i povezati se s uređajem putem Bluetooth-a.
4. Postaviti podatke o uređaju prema svojim željama.
5. Preuzeti QR kod svog uređaja na SparkShare Portalu (stranica 64. ovog Korisničkog priručnika).
6. Postaviti QR kod na vidljivo mjesto kako bi osobe koje žele koristiti punjač mogle započeti punjenje skeniranjem QR koda.



Funkcije koje trebaju biti uključene:  
"Vidljivo na mapi"  
"Cloud"

## SCENARIJ 2: PRIVATNI PUNJAČ S NADZOROM I KONTROLOM

Ako želite imati nadzor i kontrolu nad punjačem putem mobilne aplikacije i/ili portala, ali ne želite da bude javno dostupan, potrebno je:

1. Instalirati BOXEV i uključiti uređaj.
2. Preuzeti SparkShare mobilnu aplikaciju skeniranjem QR koda koji se nalazi na brošuri za instalaciju.
3. Kreirati račun i povezati se s uređajem putem Bluetooth-a.
4. Postaviti podatke o uređaju prema svojim željama te u postavkama odabrati opciju "Predautoriziran".

U ovom slučaju nema potrebe za skeniranjem QR koda prilikom pokretanja punjenja. Čim se priključi punjač u vozilo, punjenje započinje automatski. Napomena: Kada koristite ovu opciju, ne dolazi do razmjene WTC tokena



Funkcije koje trebaju biti uključene:  
"Cloud"  
"Predautoriziran"

## SCENARIJ 3: BOXEV BEZ NADZORA I KONTROLE

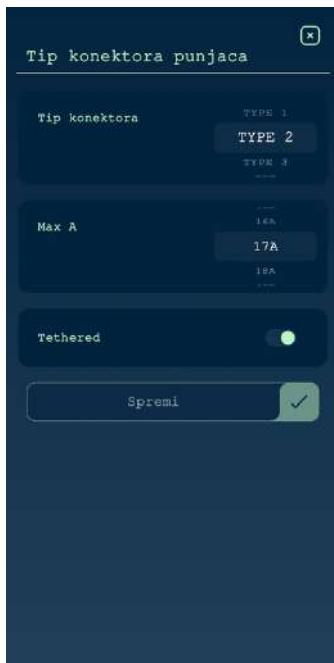
Ako ne želite imati kontrolu i nadzor nad svojim BOXEV uređajem ili ne možete osigurati stabilnu internetsku vezu, on može raditi bez pametnih funkcionalnosti. U ovom slučaju:

- Punjenje započinje automatski nakon priključenja vozila
- Bez mogućnosti nadzora i kontrole putem mobilne aplikacije i/ili portala.
- Nemate pristup informacijama o potrošnji električne energije ili drugim parametrima punjenja.
- BOXEV u ovom scenariju služi isključivo kao jednostavna "kutija" za punjenje električnog vozila.

Za ovaj način rada potrebno je:

1. Instalirati BOXEV i uključiti uređaj
2. Preuzeti SparkShare mobilnu aplikaciju skeniranjem QR koda koji se nalazi na brošuri za instalaciju.
3. Kreirati račun i povezati se s uređajem putem Bluetooth-a.
4. Postaviti podatke o uređaju prema svojim željama.
5. Ukloniti uređaj s računa (stranice 48.-52. ovog Korisničkog priručnika).

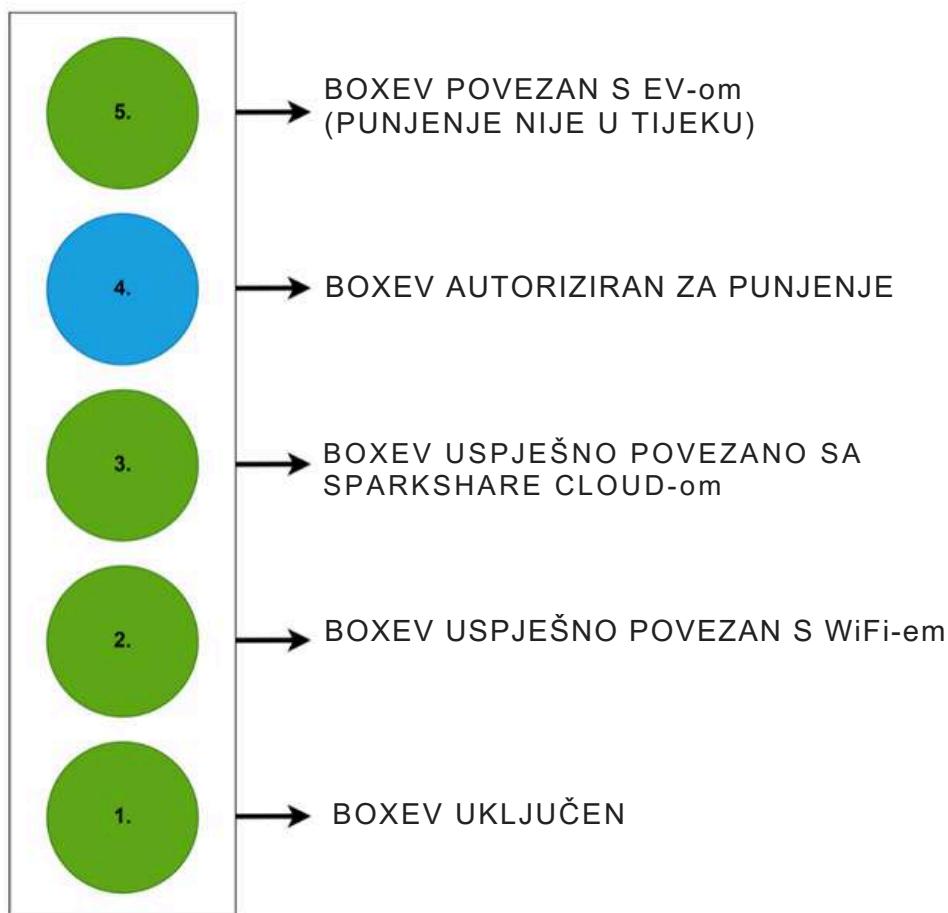
Na taj način će svi prethodno postavljeni parametri ostati spremljeni, ali uređaj će započeti punjenje priključivanjem vozila.



Funkcije koje trebaju biti uključene:  
Niti jedna od prethodno spomenutih, potrebno je samo pod "Tip konektora punjača" postaviti max struju.

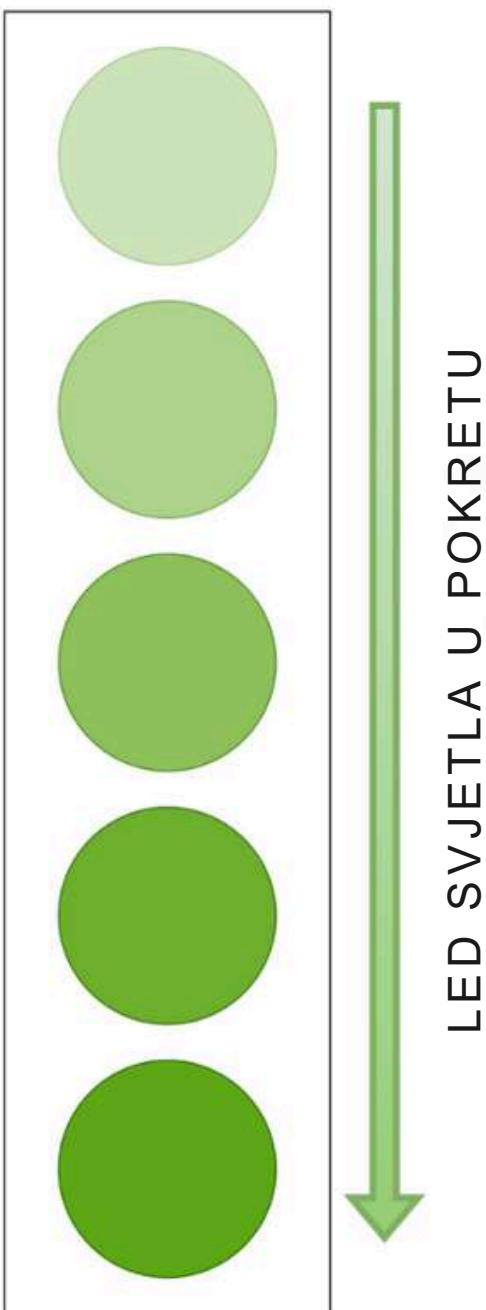
# OPIS LED INDIKACIJA

## NORMALNA OPERACIJA



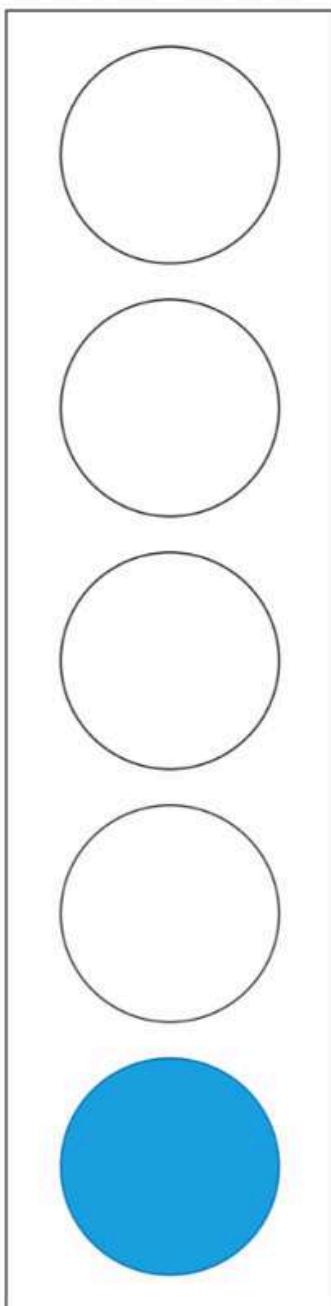
U slučaju softverske pogreške tijekom rada, LED broj 4 će zasvijetliti **CRVENO**. Nakon slanja podataka, LED broj 4 će nekoliko sekundi treptati **ŽUTOM** prije nego se uređaj ponovno pokrene (restart).

(PUNJENJE U TIJEKU)



Kada se vozilo (EV) puni, LED diode svijetle jedna po jedna od 5 do 1, simulirajući protok struje prema vozilu (**ZELENA**).

## OTA AŽURIRANJA



Tijekom OTA (Over-the-Air) ažuriranja, LED broj 1 postaje **PLAV**. Ako je ažuriranje uspješno, LED broj 1 kratko svijetli **ZELENO**, zatim ponovno **PLAVO**, a potom slijedi ponovno pokretanje uređaja (restart).

Ako dođe do pogreške tijekom OTA ažuriranja, LED broj 1 će se izmjenjivati između **PLAVE** i **CRVENE** boje. Vratit će se na **ZELENU** boju kad uređaj nastavi s radom.

# RJEŠAVANJE PROBLEMA

OPIS KVARA	PREPORUKE ZA POPRAVAK
BOXEV se ugasio	Provjerite krug napajanja. Ako nije došlo do nestanka struje, provjerite osigurač i FID sklopku. Ako su u zatvorenom položaju, otvorite BOXEV i provjerite prisutnost napona na ulaznim stezaljkama koristeći voltmeter, multimetar, električarski odvijač (vibru) ili drugi odgovarajući alat.
BOXEV je vruć	Temperaturni alarm bit će prikazan u mobilnoj aplikaciji. BOXEV će biti operativan kada njegova temperatura padne na sigurnu razinu.
Previsok napon/ Prenizak napon	Obavijest o previsokom/niskom naponu bit će prikazana u mobilnoj aplikaciji. BOXEV neće omogućiti početak punjenja dok naponska opskrba ne vrati vrijednosti unutar dopuštenog raspona.
Problemi prilikom prve instalacije	Potrebno je putem mobilne aplikacije odspojiti SparkShareBoxEV od mobilne aplikacije te ponovno napraviti proces aktivacije uređaja.

# ODRŽAVANJE

Kako bi se osigurala dugoročna stabilna funkcionalnost BOXEV-a, redovito ga održavajte (preporučljivo barem jednom mjesечно) u skladu s uvjetima okoline.

1. Oprema se održava od strane stručnih osoba.
2. Provjerite je li oprema dobro uzemljena i sigurna.
3. Provjerite postoje li potencijalni sigurnosni rizici u okolini BOXEV-a.
4. Provjerite ima li izvora visokih temperatura, korozije ili zapaljivih i eksplozivnih tvari u blizini BOXEV-a.
5. Provjerite imaju li ulazne stezaljke BOXEV-a dobar spoj s dolaznim kabelom i postoji li bilo kakva nepravilnost.

Molimo vas da se pridržavate sigurnosnih napomena; u suprotnom može doći do **opasnosti po život, ozljeda i oštećenja uređaja**, za što Sparkshare ili dobavljač ne preuzimaju odgovornost.

U slučaju zbrinavanja BOXEV-a, molimo vas da sortirate i reciklirate svoj otpad u skladu s lokalnim smjernicama za reciklažu.

# **PRIRUČNIK ZA INSTALACIJU**



**CUBE**

# SADRŽAJ

1. Upozorenja i sigurnosne napomene	29
• Opća sigurnosna upozorenja za CUBE	29
• Važne sigurnosne napomene prije nastavka	32
2. Samoprovjera i oporavak	34
3. Podjela opterećenja	34
4. Minimalni zahtjevi	35
5. Potrebni alati	36
6. Što se nalazi u kutiji?	38
7. Koraci za instalaciju	40
8. Strujna shema ožičenja	42
9. Scenariji rada CUBE-a	43
10. Opis LED indikacija	46
11. Rješavanje problema	46
12. Održavanje	48

# UPOZORENJA I SIGURNOSNE NAPOMENE

## OPĆA SIGURNOSNA UPOZORENJA ZA CUBE

**Pročitajte sve upute prije upotrebe:** Pobrinite se da u potpunosti razumijete sve upute za instalaciju i uporabu CUBE-a prije nego što ga instalirate i počnete koristiti.

**Zaštite napojnog kruga:** Napojni krug CUBE-a mora biti adekvatno uzemljen. Napojni krug CUBE-a mora biti zaštićen odgovarajućom zemljospojnom zaštitom (FID sklopka, tip-B, 30mA) i osiguračem nazivne struje u skladu s presjekom napojnog kabela, i podešenom maksimalnom strujom CUBE-a (preporučena B karakteristika).

**Uzeti u obzir uzemljenje:** CUBE mora biti uzemljen putem trajnog sustava za uzemljenje ili uzemljivačkog vodiča. Napojni krug CUBE-a mora biti zaštićen odgovarajućim RCCB-om (Prekidač sa zemljospojnom zaštitom) i osiguračem/MCB-om (Miniature Circuit Breaker). RCCB mora biti tipa B i imati nazivnu struju od 30 mA.

**Opasna mjesta:** Nemojte instalirati ili koristiti CUBE u blizini zapaljivih, eksplozivnih ili agresivnih materijala, kemikalija ili para.

**Isključite napajanje prije servisiranja:** Osigurajte beznaponsko stanje napojnog kruga CUBE-a (npr spuštanjem automatskog osigurača u napojnom krugu) prije instalacije, čišćenja i servisiranja CUBE-a kako biste izbjegli opasnost od električnog udara.

**Parametri rada:** CUBE koristite isključivo unutar specificiranih parametara radnog napona, struje i okolišnih uvjeta.

**Izloženost tekućinama:** Nikada ne prskajte vodu niti bilo koju drugu tekućinu izravno na CUBE. Također, nemojte prskati tekućinu na ručku punjača niti ju uranjati u tekućinu. Uvijek sigurno odložite ručku za punjenje na kućište punjača i zaklopite ju gumenim čepom kako biste spriječili nepotrebnu izloženost vlazi ili kontaminaciji.

**Prestanite koristiti ako je oštećen:** Prestanite koristiti CUBE ako pokazuje bilo kakve znakove oštećenja, poput pukotina, trošenja ili neispravnosti.

**Ne pokušavajte popravke:** Nemojte rastavljati, popravljati, mijenjati ili modificirati punjač CUBE-a prije nego ste se detaljno upoznali s korisničkim uputama CUBE-a. U slučaju potrebe za popravkom ili servisom CUBE-a obratite se certificiranom Sparkshare partneru. Ako se ipak odlučite samostalno popravljati/servisirati CUBE, za sve nejasnoće oko popravaka ili servisa CUBE-a obratite se proizvođaču.

**Postupajte s oprezom:** Prilikom transporta CUBE-a, izbjegavajte izlaganje snažnim udarcima, silama ili naprezanjima (kao što su uvijanje, povlačenje ili gaženje kabela) kako biste spriječili oštećenje.

**Strani predmeti:** Nemojte umetati strane predmete u bilo koji dio CUBE-a.

**Interferencija s medicinskim uređajima:** Rad CUBE-a može ometati funkcionalnost medicinskih ili implantiranih elektroničkih uređaja poput pacemakera. Prije korištenja punjača CUBE, konzultirajte se s proizvođačem vašeg medicinskog uređaja kako biste osigurali sigurnu upotrebu.

**Neispravna instalacija:** Neispravna instalacija i testiranje CUBE-a mogu potencijalno oštetiti bateriju vozila ili sam punjač.

**Izbjegavajte ekstremne temperature:** CUBE se ne smije koristiti izvan temperaturnog raspona od -30°C do +50°C.

**Izbjegavajte izravnu sunčevu svjetlost i ekstremne vremenske uvjete:** Izbjegavajte izlaganje CUBE-a izravnoj jakoj kiši, snijegu ili drugim ekstremnim vremenskim uvjetima.

**Zaštita kabela:** Pobrinite se da je kabel CUBE-a postavljen na način koji sprječava gaženje, prelaženje, spoticanje ili bilo koji drugi način na koji se može oštetiti ili izložiti naprezanju.

**Čišćenje:** Nemojte koristiti otapala za čišćenje bilo kojeg dijela CUBE-a. Povremeno obrišite vanjski dio CUBA-a, kabel za punjenje i ručku punjača čistom, suhom krpom kako biste uklonili nakupljenu prljavštinu i prašinu.

**Nadstrešnica:** Ukoliko je CUBE na otvorenom, preporučuje se postavljanje nadstrešnice iznad CUBE-a kako bi se zaštitio od izravne izloženosti kiši, snijegu, ledu i suncu. Time se osigurava dugotrajan i pouzdan rad uređaja u svim vremenskim uvjetima.

!

- Upozorenje:** Koristite samo napon 230/400 V, 50Hz kao izvor napajanja CUBE-a.
- Upozorenje:** Neispravna instalacija i uporaba CUBE-a može potencijalno oštetiti bateriju vozila i/ili sam CUBE. Bilo koja šteta koja nastane možda neće biti pokrivena garancijom.
- Upozorenje:** Nemojte koristiti CUBE izvan temperaturnog raspona od -30°C do +50°C.
- Upozorenje:** Osigurajte odgovarajuću ventilaciju i držite CUBE slobodnim od prepreka ili vanjskih faktora koji mogu uzrokovati pregrijavanje ili smanjene performanse.

## VAŽNE SIGURNOSNE NAPOMENE PRIJE NASTAVKA

Budite oprezni tijekom instalacije kako biste izbjegli oštećenje bilo kojih sklopova ili komponenti unutar CUBE-a.

Pobrinite se da je dolazno napajanje sigurno isključeno prije spajanja CUBE-a.

Obratite posebnu pozornost da je PE (zaštitno uzemljenje) stezaljka pravilno spojena te da je zaštitno uzemljenje napojnog kruga adekvatno izvedeno.

Nemojte ostavljati dijelove poput vijaka, brtvi, podložnih matica ili drugih metalnih predmeta unutar CUBE-a.

Strogo je zabranjeno maloljetnicima ili osobama s ograničenim sposobnostima prići CUBE-u kako bi se spriječile moguće ozljede.

Strogo je zabranjeno koristiti CUBE ako su kabeli za punjenje oštećeni, puknuti, istrošeni, slomljeni ili ako su bakrene žice izložene. Ako primijetite bilo kakvu štetu, molimo vas da nas kontaktirate i naručite novi dio putem SparkShare webshop-a što je prije moguće.

Preporučujemo da zamjenu obavi kvalificirano osoblje. Ako se ipak odlučite na samostalni popravak svog uređaja, važno je da se detaljno upoznate s ovim uputama, posebice s poglavljima: Upozorenja i sigurnosne napomene, Što se nalazi u kutiji, Koraci za instalaciju i Strujna shema ožičenja.

Preporučuje se da se rutinski sigurnosni pregledi punjača CUBE provode barem jednom tjedno.

Maksimalna snaga CUBE-a je 22 kW ili 32A pri 400V AC trofaznoj struji.

OPIS	SPECIFIKACIJA
Napon	230/400 V
Struja	32 A (po fazi)
Frekvencija	50 Hz
Duljina kabla*	6m i 10m
Dimenzije	38x38x14
Težina	5 kg
Radna temperatura	-25 -50 C
Temperatura skladištenja	-40 -75 C
Odobrenja agencija	CE

\*ukoliko je odabrana verzija s Type2 kabelom

# **SAMOPROVJERA I OPORAVAK**

Ručno testiranje i resetiranje nije potrebno.

Ako dođe do kvara zemljospoja, vanjska FID sklopka ili osigurač otklanjaju kvar. Kada je kvar otklonjen i napajanje ponovno uspostavljeno, CUBE će se uključiti i ponovno pokrenuti. Ako je do prekida napajanja doško tokom punjenja, CUBE će ponovno pokrenuti punjenje.

## **PODJELA OPTEREĆENJA**

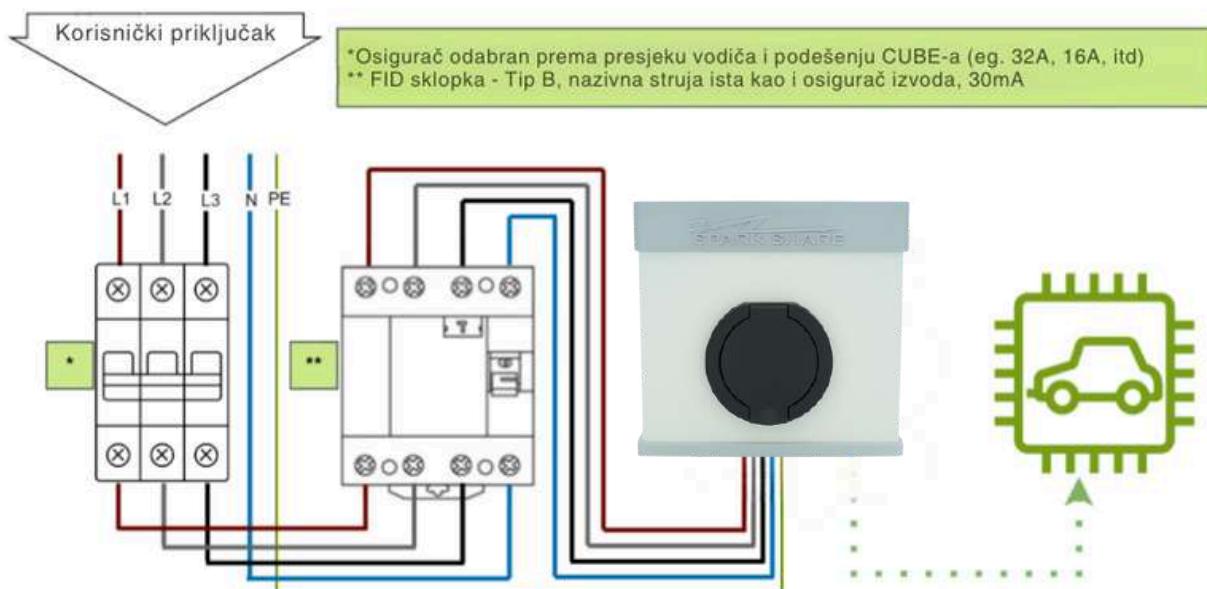
SparkShare "Load management" omogućava korisnicima napajanje više SparkShare punjača iz istog napojnog kruga uz određivanje najveće ukupne struje punjenja svih SparkShare punjača u navedenom krugu, pružajući vlasnicima vozila sigurnost da mogu puniti više vozila istovremeno bez preopterećenja kruga. Više SparkShare punjača komunicira međusobno kako bi podijelili opterećenje između vozila, osiguravajući da opterećenje nikada ne prelazi dopušteni napon kruga.

# MINIMALNI ZAHTJEVI

Instalacija CUBE-a zahtjeva da:

1. Izračunate postojeće električno opterećenje kako biste odredili maksimalnu radnu struju izvoda kojim želite instalirati CUBE.
2. Osigurate minimalni pad napona postavljanjem CUBE-a što bliže razvodnoj kutiji.
3. Prikupite sve potrebne dozvole od nadležnih lokalnih vlasti i potvrdite da je inspekcija nakon završene instalacije obavljena od strane kvalificiranog električara.
4. Koristite samo bakrene vodiče.
5. Koristite vodiče koji su dimenzionirani u skladu s lokalnim propisima o elektroinstalacijama. Odabrani kabel mora biti sposoban podnijeti stalna opterećenja do 32A.
6. Koristite zaštitne uređaje. Uređaj za zaštitu izvoda mora biti odabran tako da uključuje odgovarajuću zemljospojnu zaštitu (FID sklopka) i zaštitu od preopterećenja/kratkog spoja (osigurač) prema odabranom električnom opterećenju.

Napomena: Posavjetujte se s električarom kako biste osigurali da instalacija udovoljava lokalnim propisima.



# POTREBNI ALATI

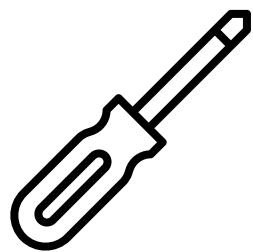
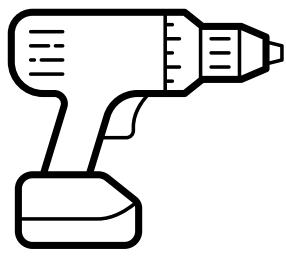
Za instalaciju CUBE-a potrebni su sljedeći alati:

## Obavezno:

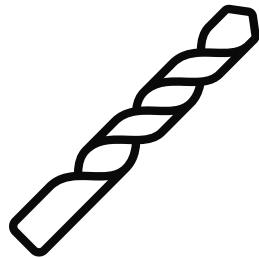
Električna  
bušilica

Kliješta za rezanje žice  
i skidanje izolacije

Križni odvijač

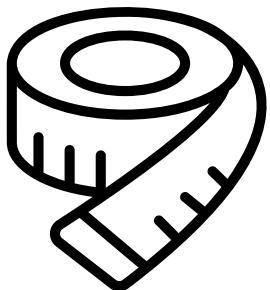


Svrdlo promjera  
8 mm

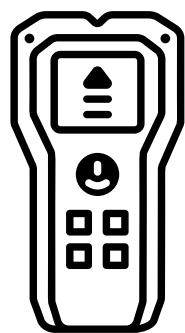


**Opcionalno:**

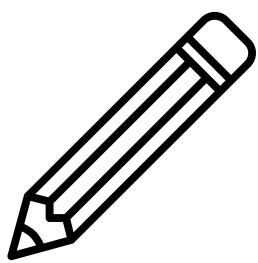
Mjerna traka



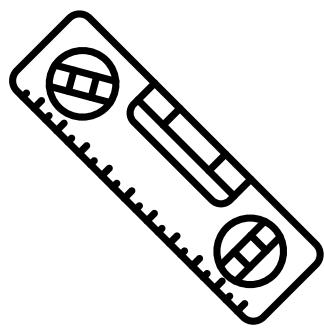
Detektor kabela



Olovka



Vodena vaga



# ŠTO SE NALAZI U KUTIJI?

Stavka	Opis	Količina
	Brošura za instalaciju	1
	Kratki vodič	1
	SparkShare Cube	1
	Plastična zakovica	3



Alat za zakovice

1



Tiplovi za  
montažu

3



Vijak

1



Kukice za  
montažu

2



Kabel Type 2\*

1

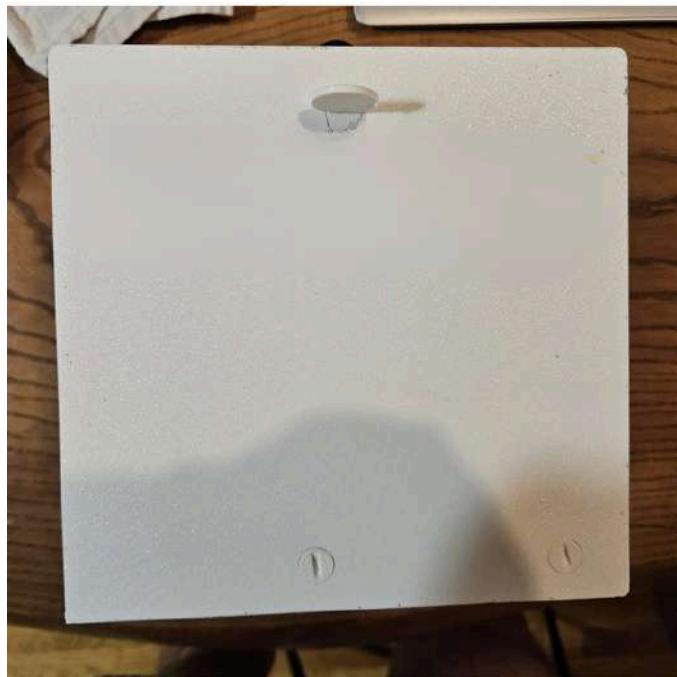
\*ukoliko je odabrana verzija s Type2 kabelom

# KORACI ZA INSTALACIJU

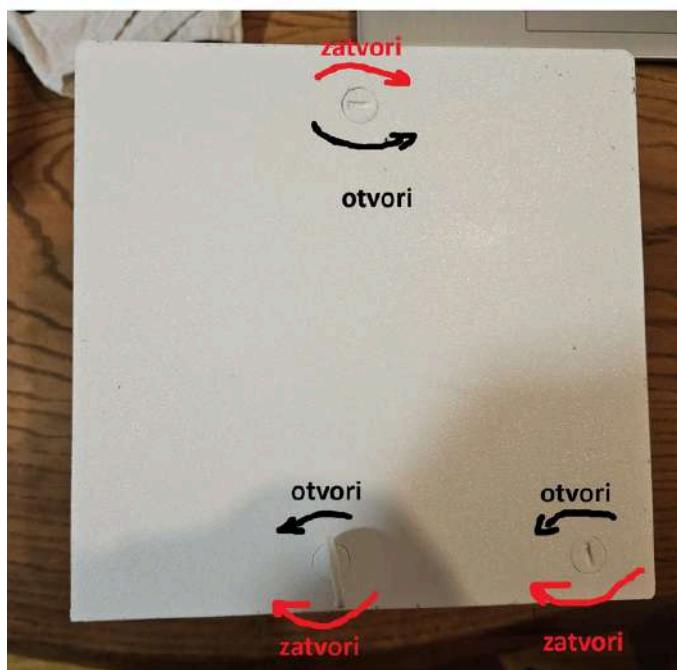
Upozorenje: Nakon što provedete instalaciju do željene pozicije, spustite/isključite odgovarajući osigurač u glavnom krugu,  
**ISKLJUČITE NAPAJANJE I POTVRDITE DA JE BEZNAPONSKO STANJE PRIJE NASTAVKA.**

1. Uzmite brošuru za instalaciju, na kojoj su označene rupe za bušenje.  
*Za osiguranje pravilnog postavljanja, preporučuje se korištenje vodene vase.*
2. Označite točke za bušenje na zidu. *Preporučuje se korištenje detektora kabela kako biste provjerili ima li električnih instalacija, vodovodnih cijevi ili drugih prepreka iza zida.*
3. Izbušite rupe odgovarajućim svrdlom, preporučena veličina 8 mm.
  - Izbušite samo dvije gornje rupe za kukice te u njih gurnite dane tiple
  - U tiple zategnjite dane kukice tako da prostor između kukice i zida bude oko 5 mm
  - Okačite CUBE na kukice te na zidu označite položaj rupe za vijak i označite položaj dolaza napojnog kabela na kutiji CUBE-a. *Obratite pozornost da dolazni kabel u CUBE može ući samo u za to predviđenom prostoru na zadnjoj strani kućišta.*
  - Skinite CUBE s kukica, izbušite rupu na označenom mjestu te u nju gurnite tipl, izbušite rupu na kutiji CUBE-a. *Rupa se obavezno mora nalaziti u za to predviđenom prostoru na zadnjoj strani kutije i ne smije svojim rubom dodirivati naznačenog prostora.*
  - Vratite CUBE na kukice, poravnajte ga sa rupom za dolazni kabel i pričvrstite ga danim vijkom
4. Provucite napojni kabel.
5. Spojite žice iz napojnog kabela na odgovarajuće stezaljke: L1, L2, L3, N, PE. *Pogledajte poglavlje Strujna shema ožičenja.*
6. Vratite donji poklopac.
7. Ponovno pričvrstite plastične zakovice kako biste osigurali donji poklopac.
8. Uključite napajanje uređaja na prethodno isključenom osiguraču.

## POSTUPAK OTVARANJA KUTIJE

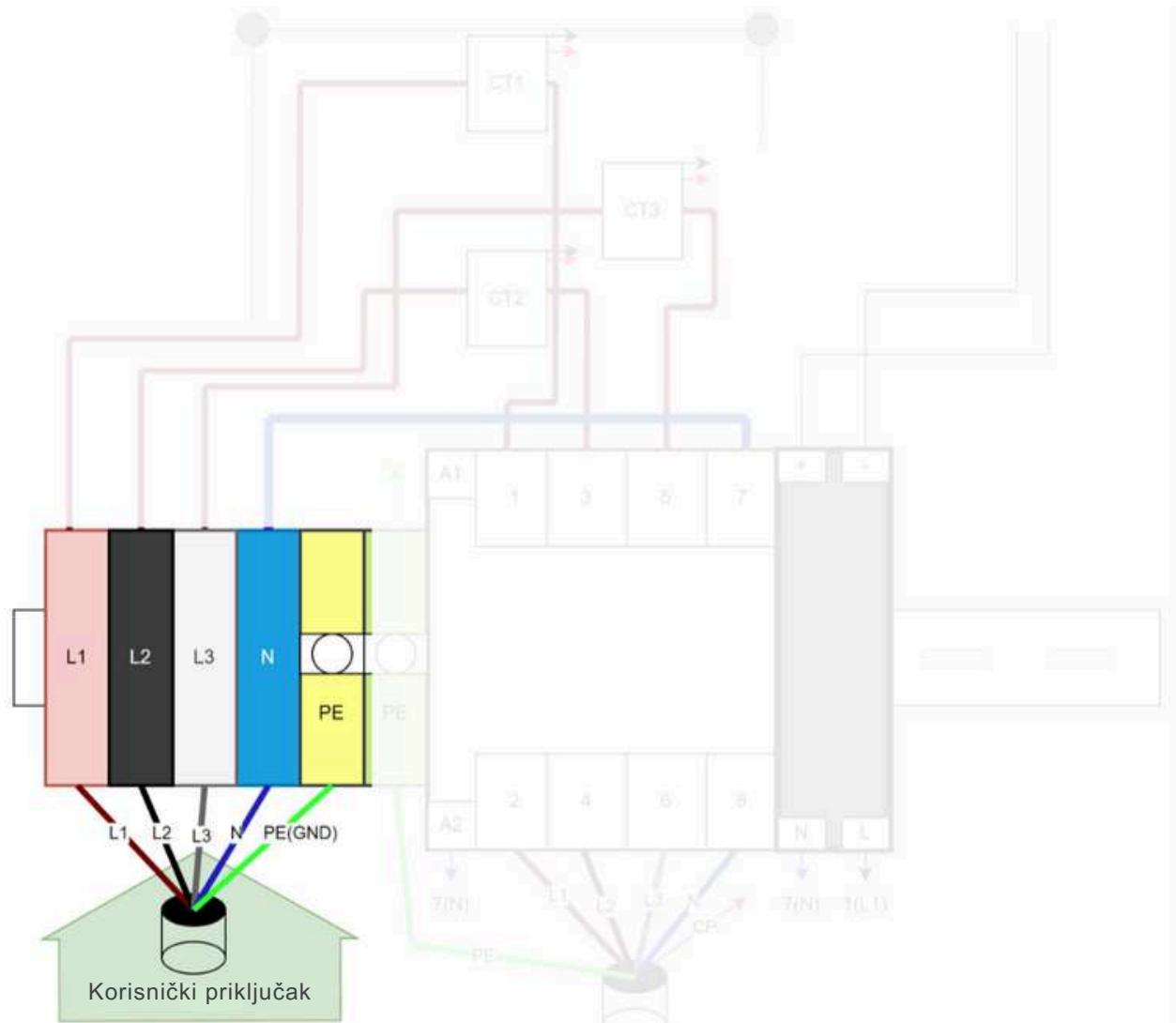


U plastične zakovice umetnите alat za zakovice.



Okrenite u smjeru prikazanom na fotografiji. Postupak ponovite na sve tri zakovice. Nakon što su zakovice otključane, pažljivo ih izvucite iz CUBE-a te skinite donji dio CUBE-a povlačenjem prema sebi.

# STRUJNA SHEMA OŽIČENJA



# SCENARIJ RADA CUBE-A

**! STRUJA PUNJENJA CUBE-A OGRANIČENA JE NA 6A DOK SE UREĐAJ NE POVEŽE PUTEM SPARKSHARE APLIKACIJE.**

## SCENARIJ 1: KORIŠTENJE SVIH POGODNOSTI SPARKSHARE MREŽE

Ako želite koristiti sve funkcionalnosti koje SparkShare mreža omogućuje, uključujući javno dostupan punjač u mobilnoj aplikaciji, nadzor i kontrolu putem mobilne aplikacije i/ili SparkShare portala, dijeljenje električne energije i druge mogućnosti, potrebno je:

1. Instalirati CUBE i uključiti uređaj.
2. Preuzeti SparkShare mobilnu aplikaciju skeniranjem QR koda koji se nalazi na brošuri za instalaciju.
3. Kreirati račun i povezati se s uređajem putem Bluetooth-a.
4. Postaviti podatke o uređaju prema svojim željama.
5. Preuzeti QR kod svog uređaja na SparkShare Portalu.
6. Postaviti QR kod na vidljivo mjesto kako bi osobe koje žele koristiti punjač mogle započeti punjenje skeniranjem QR koda.



Funkcije koje trebaju biti uključene:  
"Vidljivo na mapi"  
"Cloud"

## SCENARIJ 2: PRIVATNI PUNJAČ S NADZOROM I KONTROLOM

Ako želite imati nadzor i kontrolu nad punjačem putem mobilne aplikacije i/ili portala, ali ne želite da bude javno dostupan, potrebno je:

1. Instalirati CUBE i uključiti uređaj.
2. Preuzeti SparkShare mobilnu aplikaciju skeniranjem QR koda koji se nalazi na brošuri za instalaciju.
3. Kreirati račun i povezati se s uređajem putem Bluetooth-a.
4. Postaviti podatke o uređaju prema svojim željama te u postavkama odabrati opciju "Predautoriziran".

U ovom slučaju nema potrebe za skeniranjem QR koda prilikom pokretanja punjenja. Čim se priključi punjač u vozilo, punjenje započinje automatski. Napomena: Kada koristite ovu opciju, ne dolazi do razmjene WTC tokena



Funkcije koje trebaju biti uključene:  
"Cloud"  
"Predautoriziran"

## SCENARIJ 3: CUBE BEZ NADZORA I KONTROLE

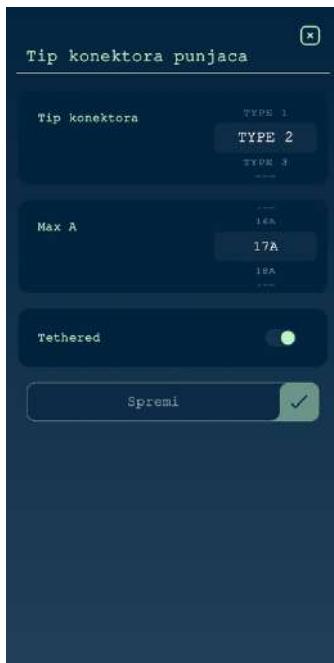
Ako ne želite imati kontrolu i nadzor nad svojim CUBE uređajem ili ne možete osigurati stabilnu internetsku vezu, on može raditi bez pametnih funkcionalnosti. U ovom slučaju:

- Punjenje započinje automatski nakon priključenja vozila
- Bez mogućnosti nadzora i kontrole putem mobilne aplikacije i/ili portala.
- Nemate pristup informacijama o potrošnji električne energije ili drugim parametrima punjenja.
- CUBE u ovom scenariju služi isključivo kao jednostavna "kutija" za punjenje električnog vozila.

Za ovaj način rada potrebno je:

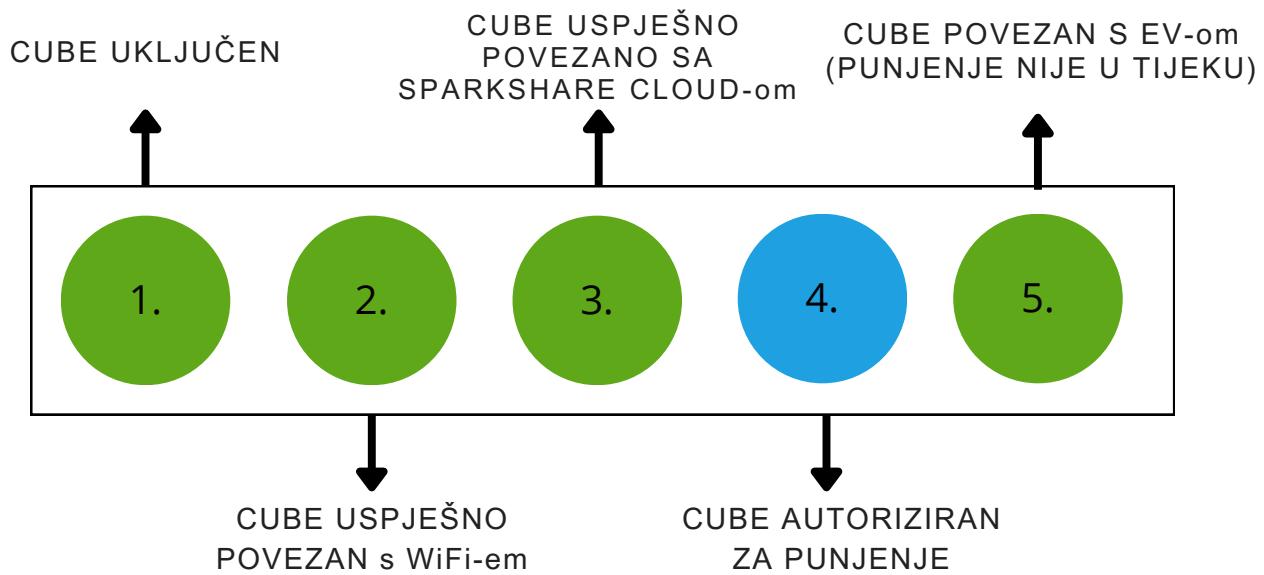
1. Instalirati CUBE i uključiti uređaj
2. Preuzeti SparkShare mobilnu aplikaciju skeniranjem QR koda koji se nalazi na brošuri za instalaciju.
3. Kreirati račun i povezati se s uređajem putem Bluetooth-a.
4. Postaviti podatke o uređaju prema svojim željama.
5. Ukloniti uređaj s računa (stranice 48.-52. ovog Korisničkog priručnika).

Na taj način će svi prethodno postavljeni parametri ostati spremljeni, ali uređaj će započeti punjenje priključivanjem vozila.



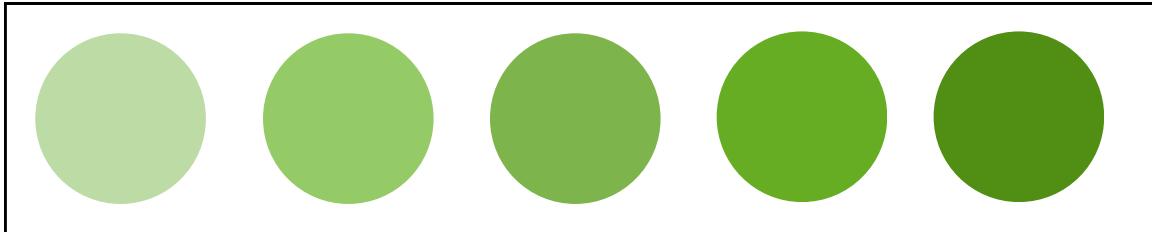
Funkcije koje trebaju biti uključene:  
Niti jedna od prethodno spomenutih,  
potrebno je samo pod "Tip konektora  
punjača" postaviti max struju.

# OPIS LED INDIKACIJA



U slučaju softverske pogreške tijekom rada, LED broj 4 će zasvijetliti **CRVENO**. Nakon slanja podataka, LED broj 4 će nekoliko sekundi treptati **ŽUTOM** prije nego se uređaj ponovno pokrene (restart).

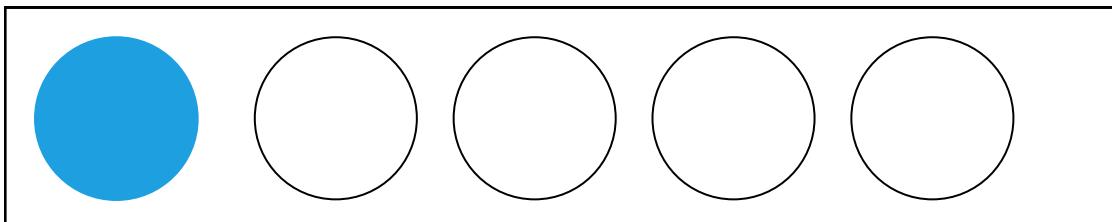
(PUNJENJE U TIJEKU)



### LED SVJETLA U POKRETU

Kada se vozilo (EV) puni, LED diode svijetle jedna po jedna od 5 do 1, simulirajući protok struje prema vozilu (**ZELENA**).

OTA AŽURIRANJA



Tijekom OTA (Over-the-Air) ažuriranja, LED broj 1 postaje **PLAV**. Ako je ažuriranje uspješno, LED broj 1 kratko svijetli **ZELENO**, zatim ponovno **PLAVO**, a potom slijedi ponovno pokretanje uređaja (restart).

Ako dođe do pogreške tijekom OTA ažuriranja, LED broj 1 će se izmjenjivati između **PLAVE** i **CRVENE** boje. Vratit će se na **ZELENU** boju kad uređaj nastavi s radom.

# RJEŠAVANJE PROBLEMA

OPIS KVARA	PREPORUKE ZA POPRAVAK
CUBE se ugasio	Provjerite krug napajanja. Ako nije došlo do nestanka struje, provjerite osigurač i FID sklopku. Ako su u zatvorenom položaju, otvorite CUBE i provjerite prisutnost napona na ulaznim stezaljkama koristeći voltmeter, multimetar, električarski odvijač (vibru) ili drugi odgovarajući alat.
CUBE je vruć	Temperaturni alarm bit će prikazan u mobilnoj aplikaciji. CUBE će biti operativan kada njegova temperatura padne na sigurnu razinu.
Previsok napon/ Prenizak napon	Obavijest o previsokom/niskom naponu bit će prikazana u mobilnoj aplikaciji. CUBE neće omogućiti početak punjenja dok naponska opskrba ne vrati vrijednosti unutar dopuštenog raspona.
Problemi prilikom prve instalacije	Potrebno je putem mobilne aplikacije odspojiti CUBE od mobilne aplikacije te ponovno napraviti proces aktivacije uređaja.

# ODRŽAVANJE

Kako bi se osigurala dugoročna stabilna funkcionalnost CUBE-a, redovito ga održavajte (preporučljivo barem jednom mjesечно) u skladu s uvjetima okoline.

- 1.Oprema se održava od strane stručnih osoba.
- 2.Provjerite je li oprema dobro uzemljena i sigurna.
- 3.Provjerite postoje li potencijalni sigurnosni rizici u okolini CUBE-a.
- 4.Provjerite ima li izvora visokih temperatura, korozije ili zapaljivih i eksplozivnih tvari u blizini CUBE-a.
- 5.Provjerite imaju li ulazne stezaljke CUBE-a dobar spoj s dolaznim kabelom i postoji li bilo kakva nepravilnost.

Molimo vas da se pridržavate sigurnosnih napomena; u suprotnom može doći do **opasnosti po život, ozljeda i oštećenja uređaja**, za što Sparkshare ili dobavljač ne preuzimaju odgovornost.

U slučaju zbrinavanja CUBE-a, molimo vas da sortirate i reciklirate svoj otpad u skladu s lokalnim smjernicama za reciklažu.

**UPUTE ZA**



**MOBILNU APLIKACIJU**

# SADRŽAJ

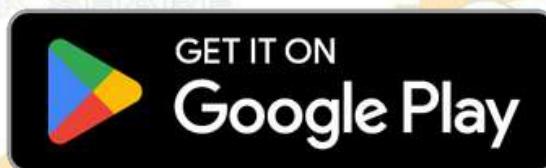
1. Preuzimanje mobilne aplikacije	52
2. Proces registracije	53
3. Dodavanje punjača	56
4. Pretvorba EUR - WTC	63
5. Prijenos WTC tokena	65
6. Punjenje na SparkShare lokacijama za korisnike bez SparkShareBOXEV-a	69
7. Deaktivacija uređaja	71
8. Brisanje računa	78

# PREUZIMANJE

Preuzmite mobilnu aplikaciju koja je dostupna u [Apple App Store](#)



i [Google Play Store](#).



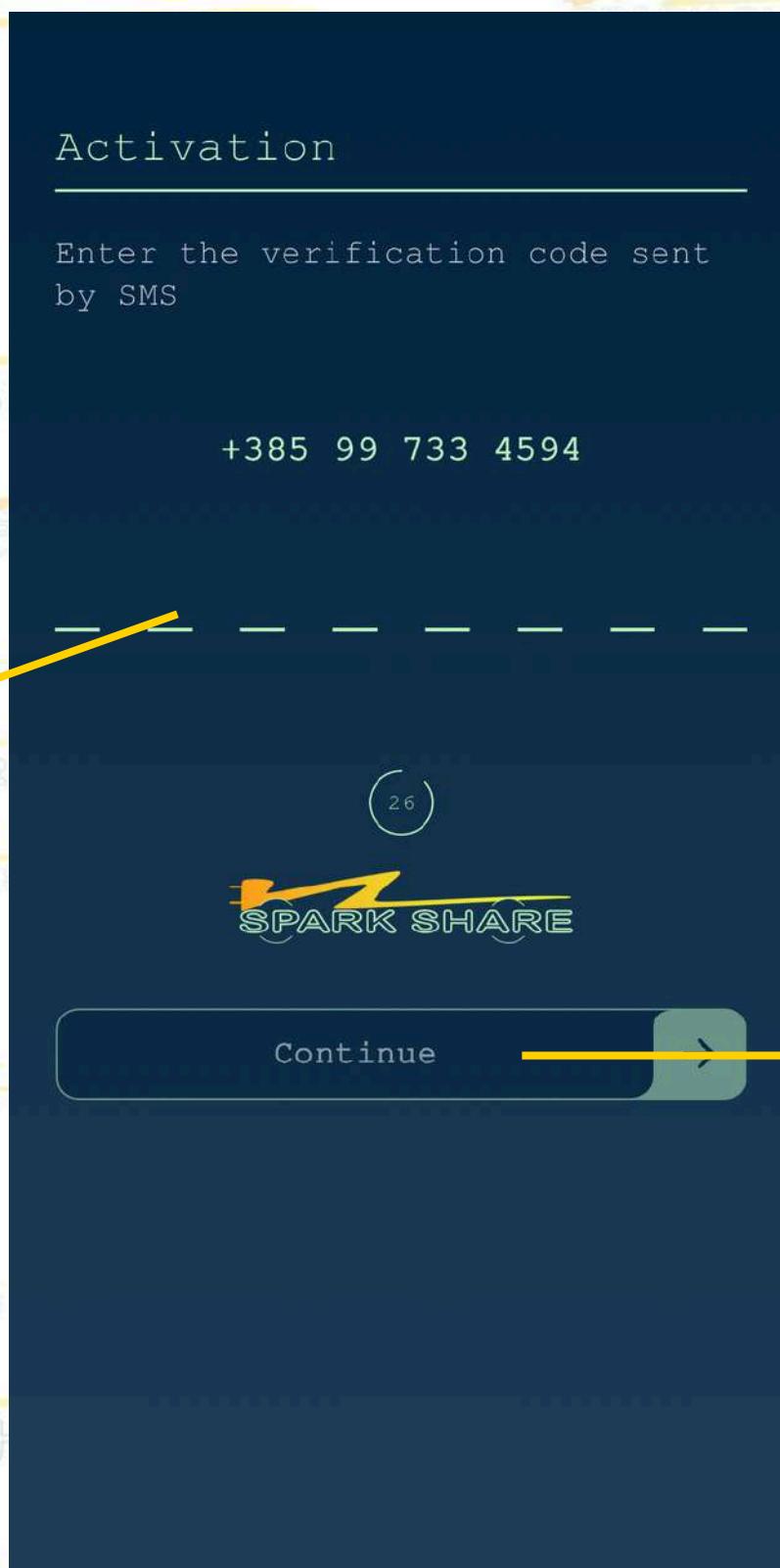
# REGISTRACIJA

Nakon preuzimanja aplikacije, potrebno se registrirati na sljedeći način:



Kroz nekoliko sekundi putem SMS poruke dobit ćete kod za aktivaciju.

Dobiveni kod  
potrebno je  
upisati ovdje



Unesite svoj novi PIN, a zatim ga potvrdite ponovnim unosom. Ovaj PIN će Vam biti potreban pri svakom budućem pristupu aplikaciji.

### Activation

Enter your unique login PIN

---

-----

1	2	3
4	5	6
7	8	9
0		

By creating a PIN, I confirm that I have read these [Terms of Use](#) and [Privacy Policy](#) and that I accept them

### Activation

Repeat PIN entry

---

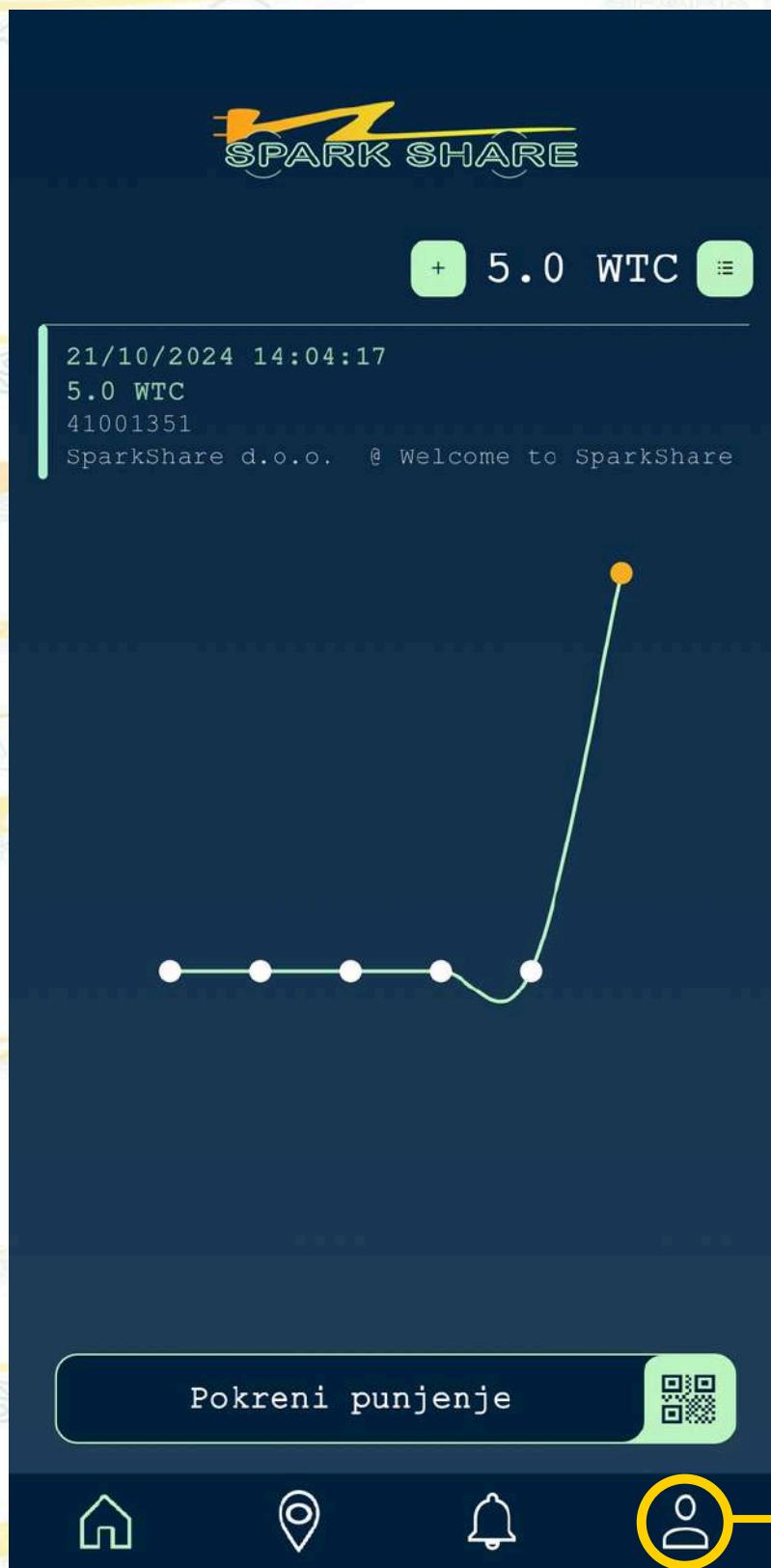
-----

1	2	3
4	5	6
7	8	9
0		

By creating a PIN, I confirm that I have read these [Terms of Use](#) and [Privacy Policy](#) and that I accept them

# DODAVANJE PUNJAČA

Uredaj je postavljen na **ograničenje od 6A!** Kako biste povećali kapacitet potrebno je **povezati uređaj s mobilnom aplikacijom.**



Na "Naslovnoj stranici" odaberite "Profil"

Lea Grbavica

📞 +385 99 733 4594

✉️ info@sparkshare.eu



## Podaci

Osobni podaci

Moji uređaji

Kuponi

Prijava na portal

Kupi novi SparkShare BOX

Jezik

Croatian ▾

Brisanje računa



Statistika



Sigurnost



Podrška



O nama



Odaberite  
"Moji uređaji"

## Moji uređaji

048C6471

Slobodno

Stanka Vraza 7, 31000 Osijek

Ukupno kW/WTC

-6.62/0.10

Temp. -

FW ver. 1.6.19

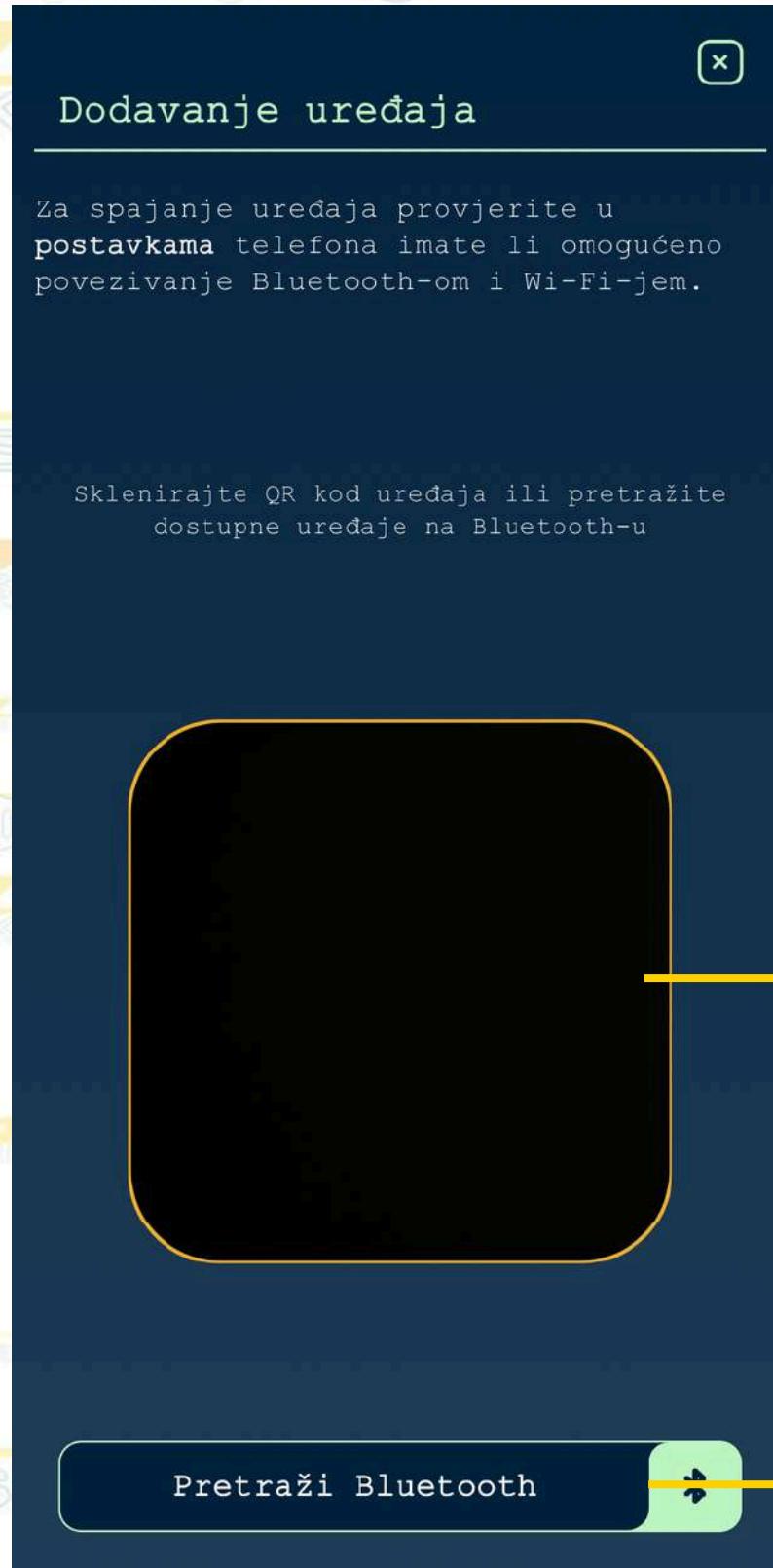
Ukoliko imate  
jedan ili više  
uređaja, bit će  
prikazani ovdje

Dodaj novi



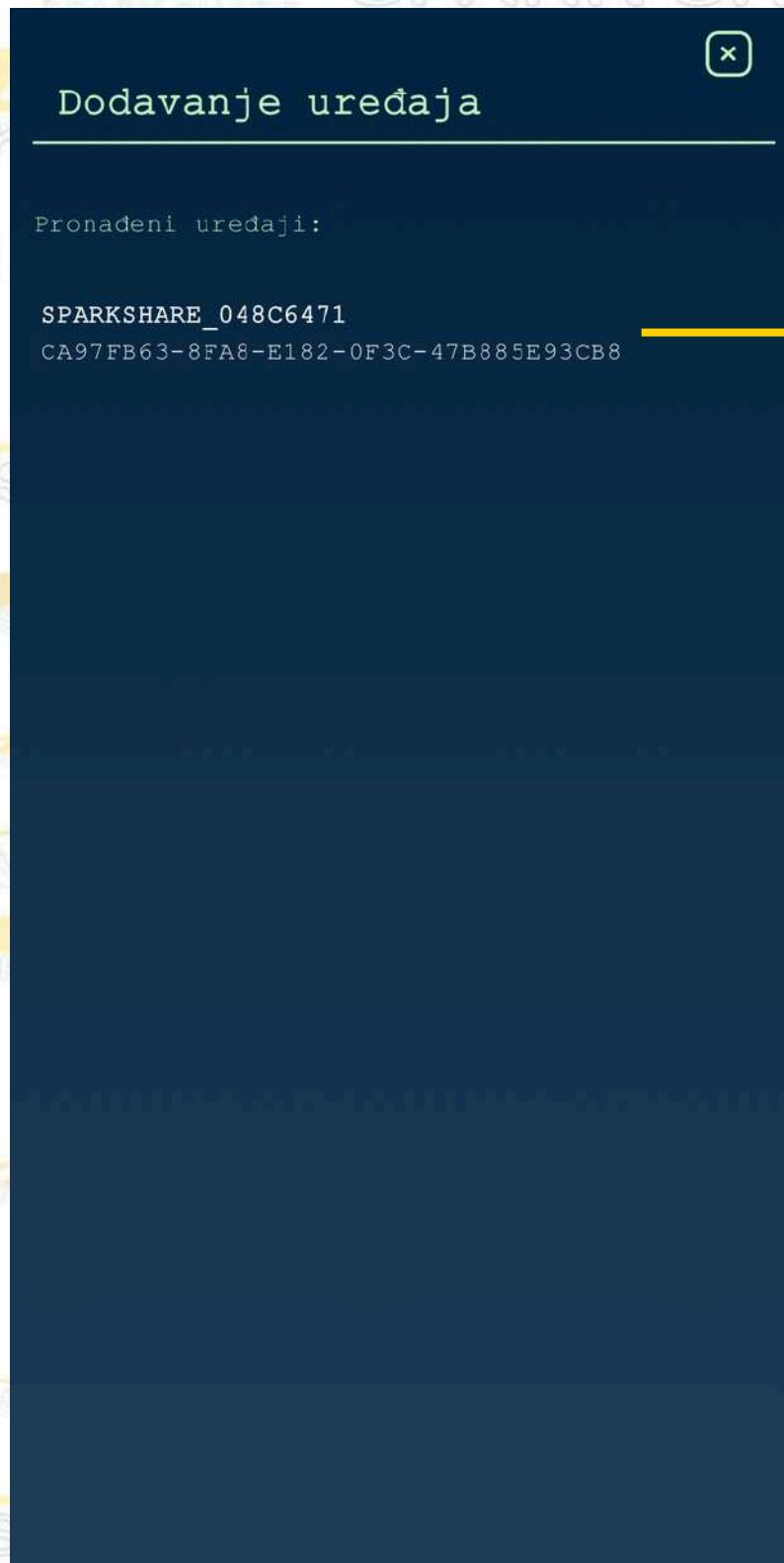
Ukoliko želite  
dodati još  
uređaja,  
odaberite  
"Dodaj novi"

Ukoliko nemate povezan uređaj sa svojim korisničkim računom, automatski će Vam se otvoriti prozor "Dodavanje uređaja".



**Uređaj se NE SPAJA putem Bluetooth-a mobilnog uređaja, nego isključivo kroz SparkShare mobilnu aplikaciju.**

Ukoliko odaberete "Pretraži Bluetooth" otvorit će se prikazani prozor.

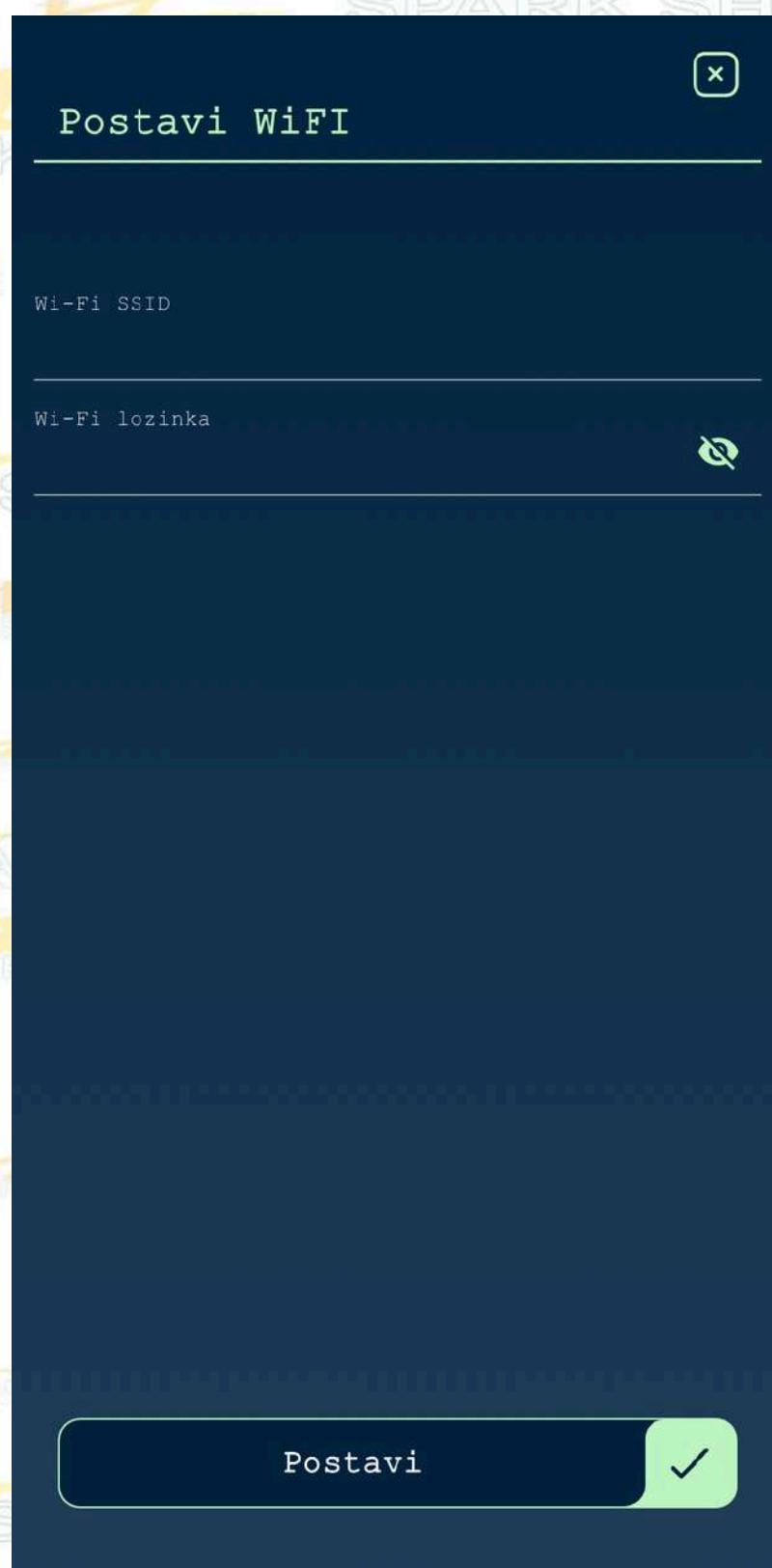


Odaberite uređaj koji želite dodati svom korisničkom računu

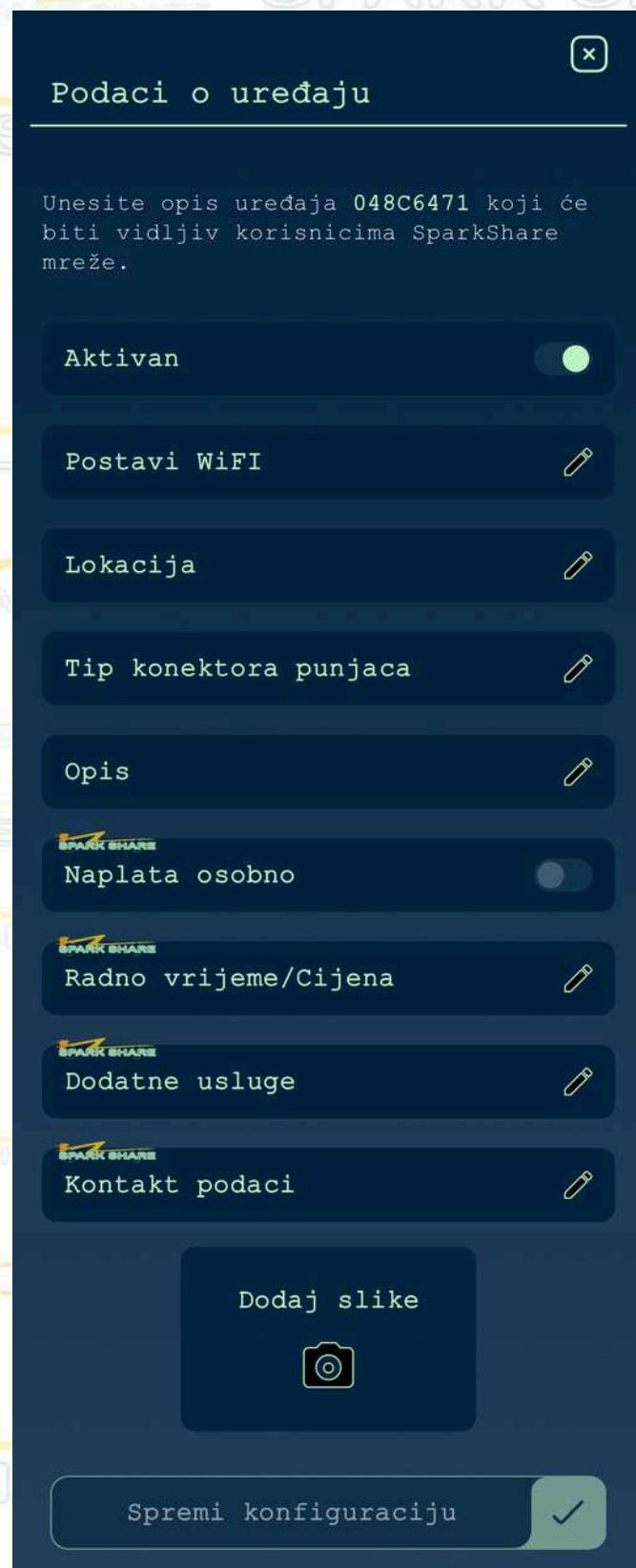
**Prilikom aktivacije SparkShareBOXEV-a kroz mobilnu aplikaciju, BOX ne smije biti spojen na EV!**

Nakon odabira uređaja, otvorit će se prozor "Postavi WiFi".

U tom prozoru potrebno je unijeti podatke WiFi mreže s kojom će se uređaj povezivati.

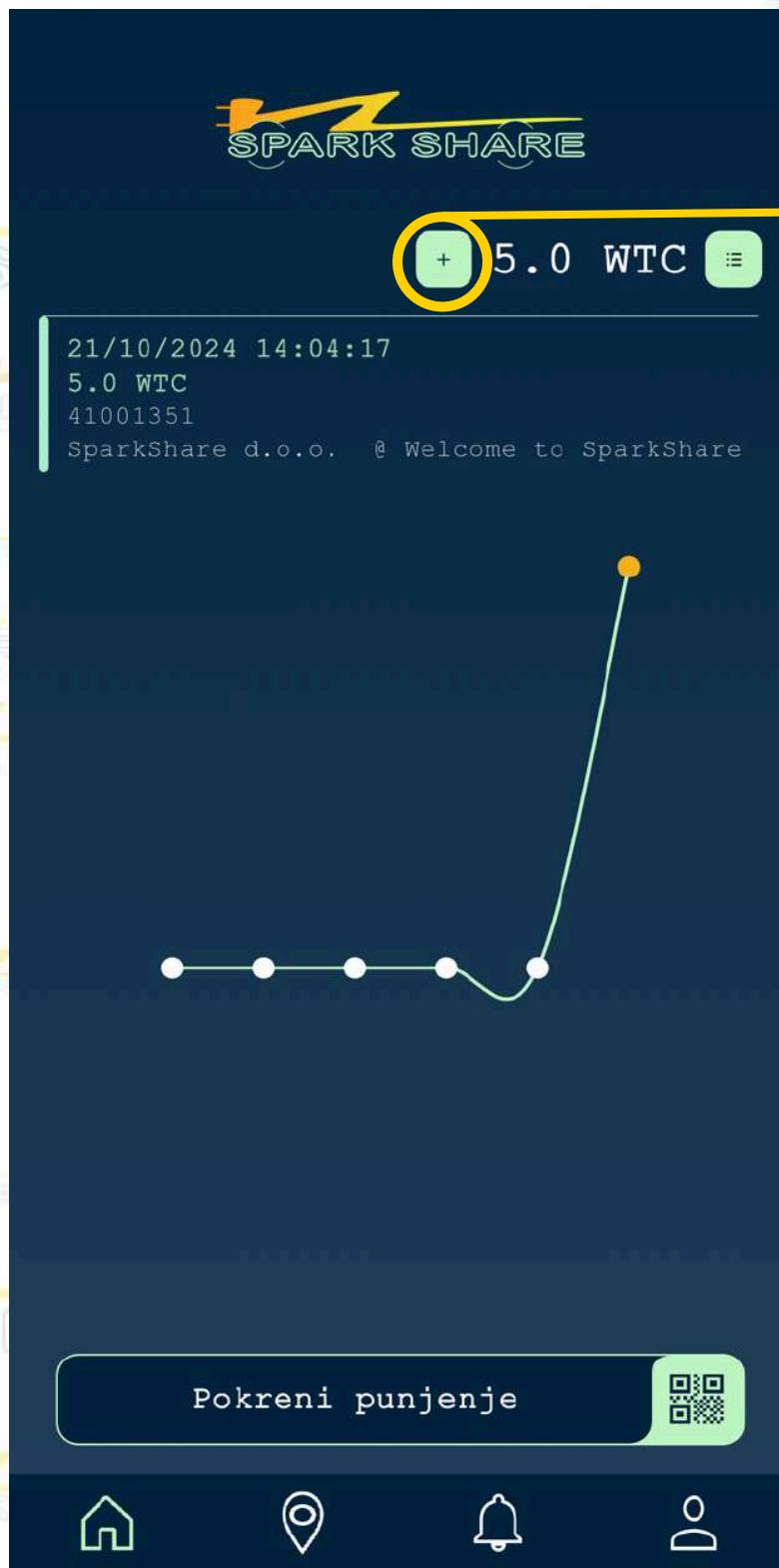


Nakon unosa WiFi podataka, mobilna aplikacija i uređaj bit će povezani. Tada ćete moći unijeti podatke vezane za Vaš SparkShareBOXEV.



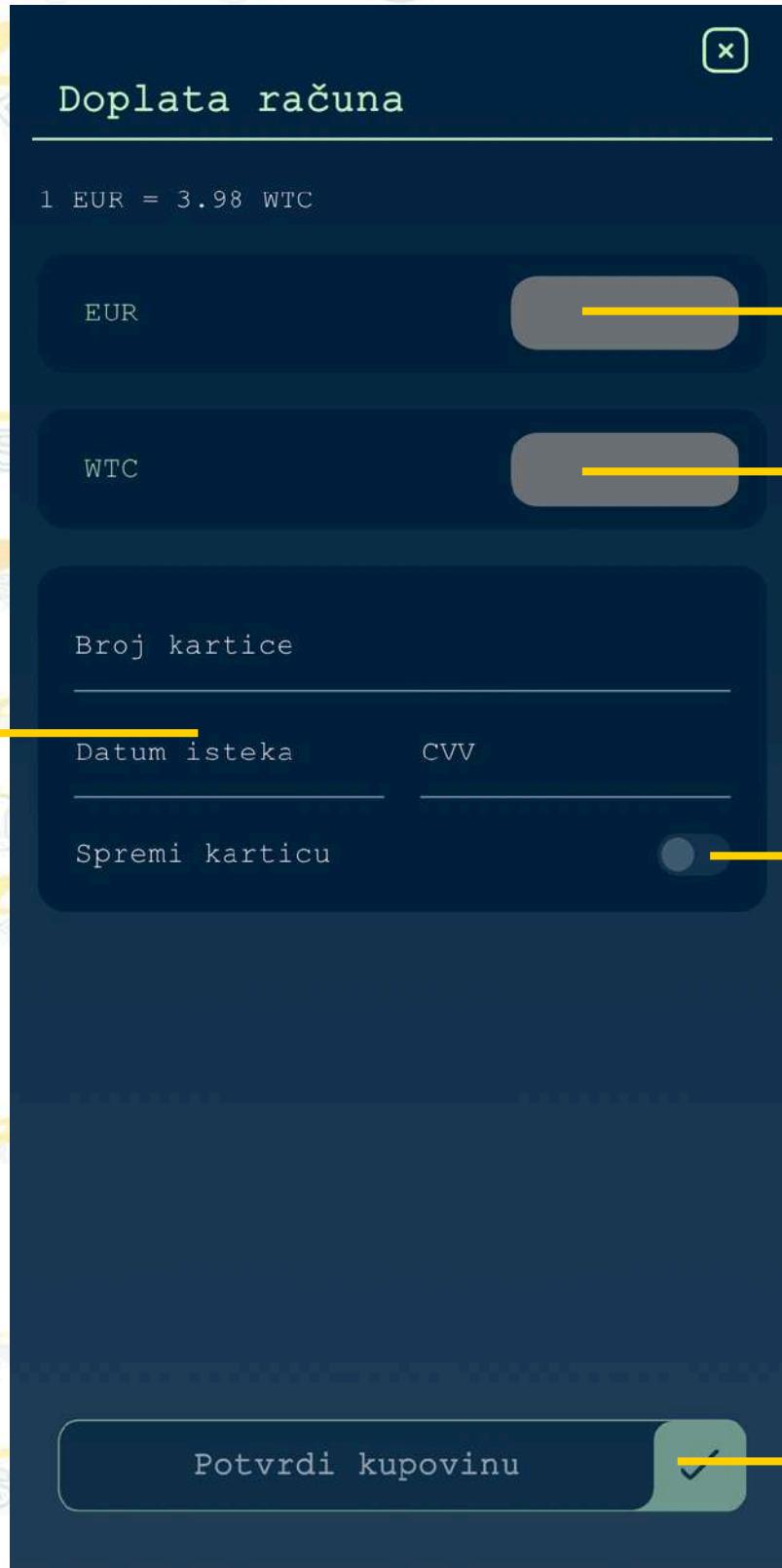
# PRETVORBA EUR-WTC

Unutar SparkShare zajednice, sredstvo plaćanja za razmjenu energije su WTC tokeni. Uplata WTC tokena na Vaš SparkShare račun odvija se na sljedeći način:



Na naslovnoj stranici odaberite označenu ikonu

Nakon odabira ikone +, otvorit će se "Doplata računa".



U označeno polje unesite iznos u eurima koji želite uplatiti

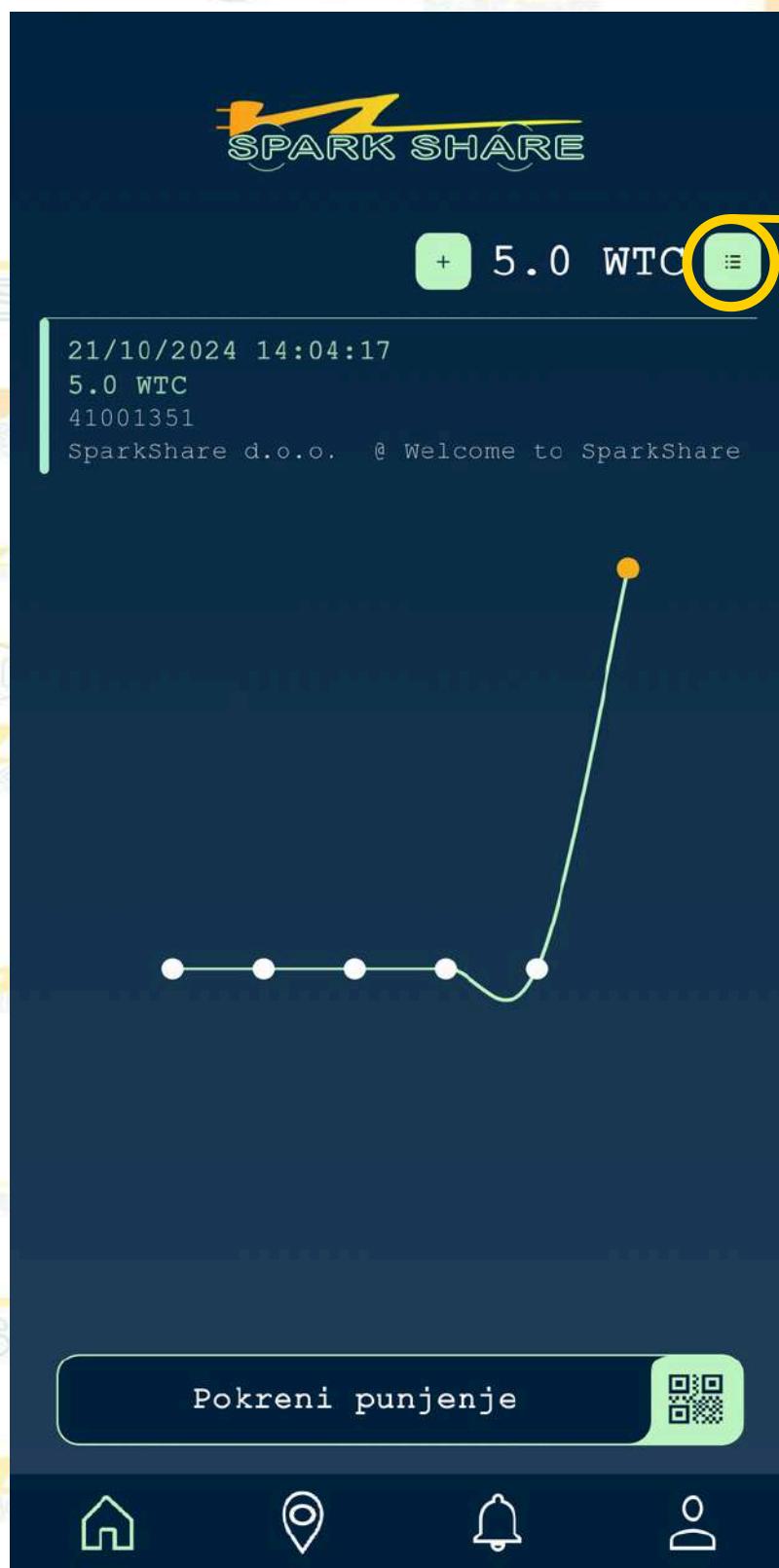
Iznos u eurima bit će automatski preračunat u protuvrijednost u WTC tokenima

Uključivanjem opcije "Spremi karticu" podaci će biti spremljeni u aplikaciju što Vam može ubrzati proces uplate sredstava

Nakon unosa potrebnih podataka odaberite "Potvrdi kupovinu"

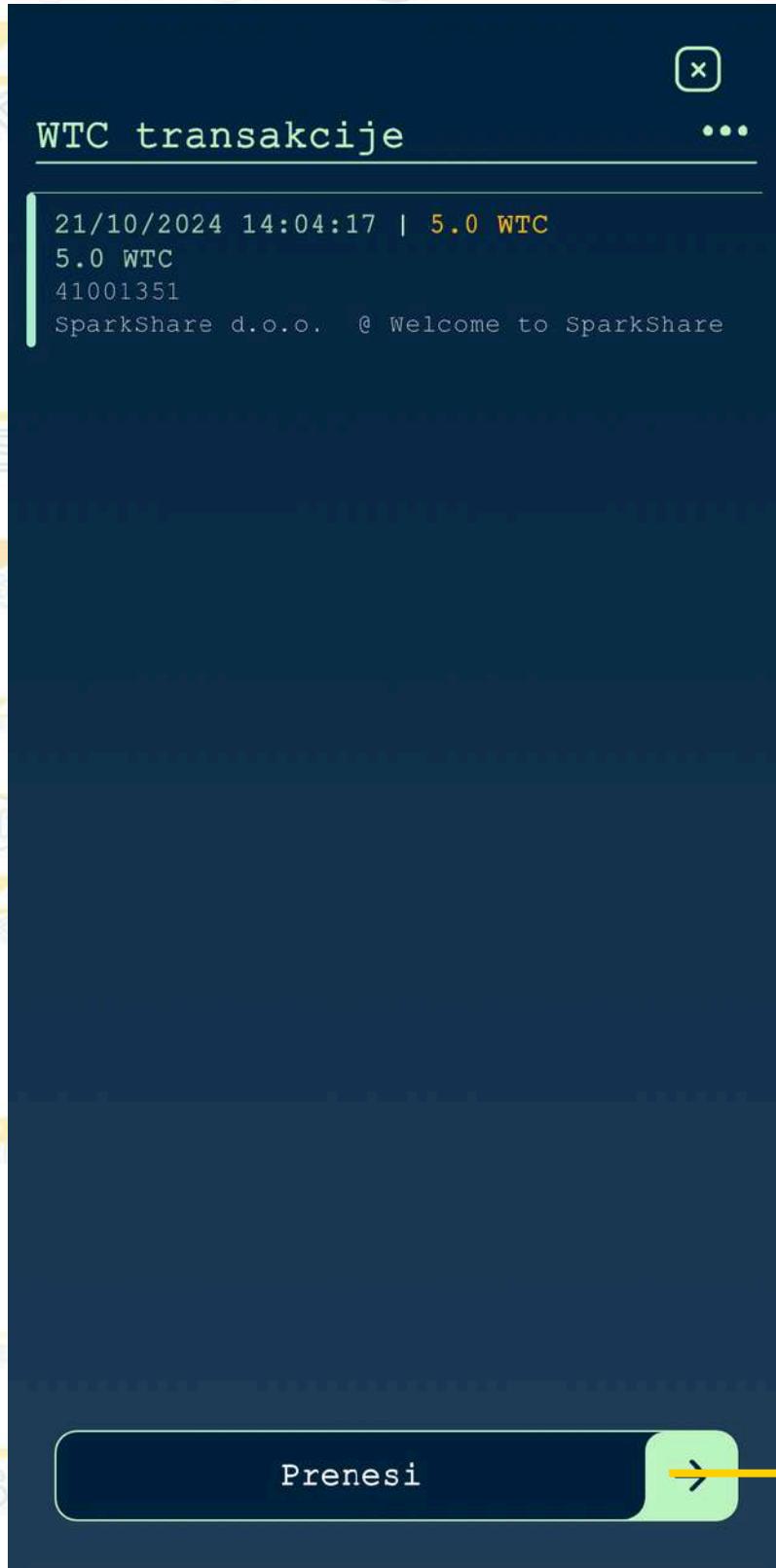
# PRIJENOS WTC TOKENA

Ukoliko želite prebaciti WTC tokene sa svog računa na račun drugog člana SparkShare zajednice, koraci su sljedeći:

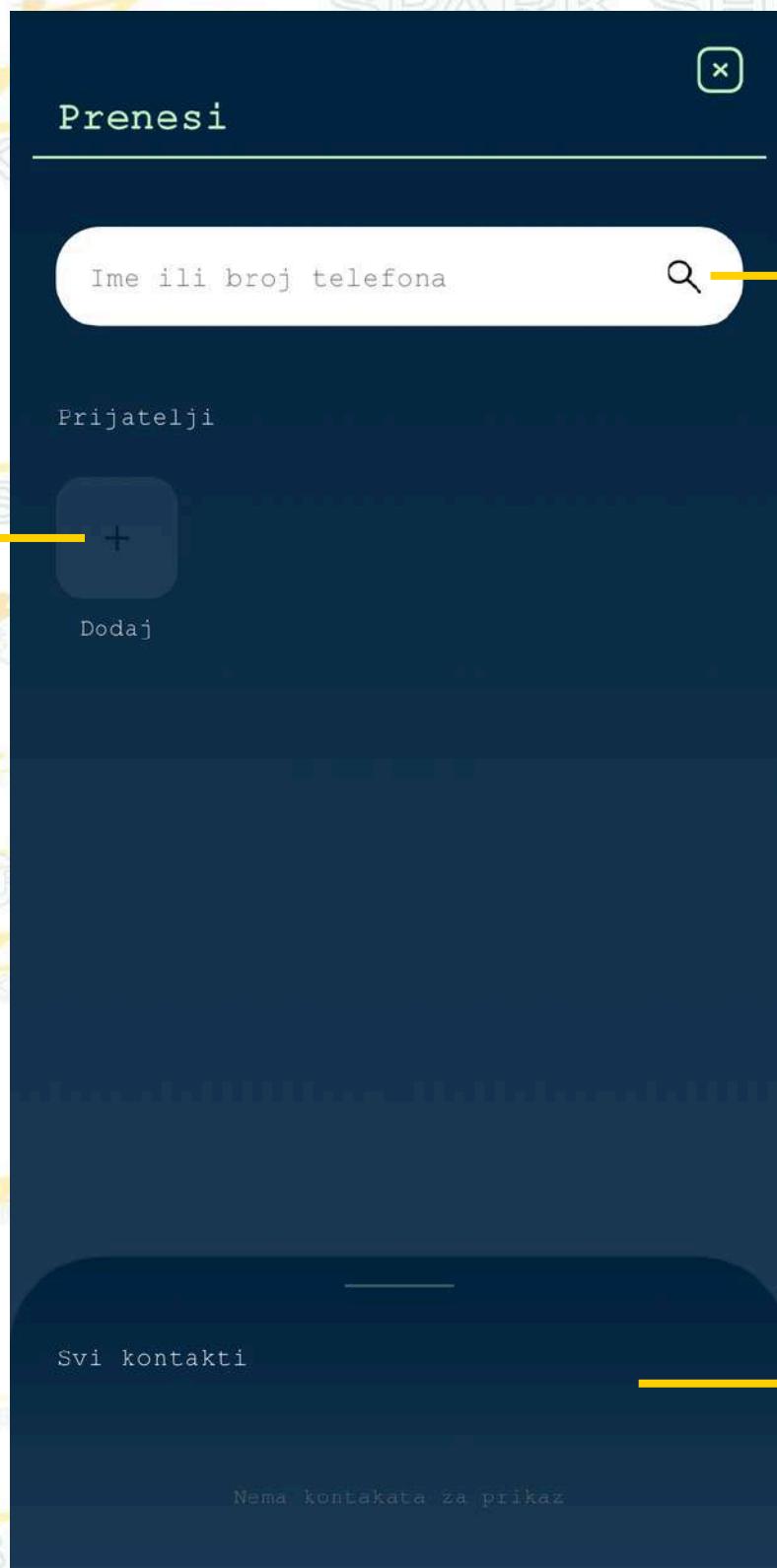


Na "Naslovnoj stranici" odaberite označenu ikonu

Nakon odabira prikazane ikone, otvorit će se popis WTC transakcija



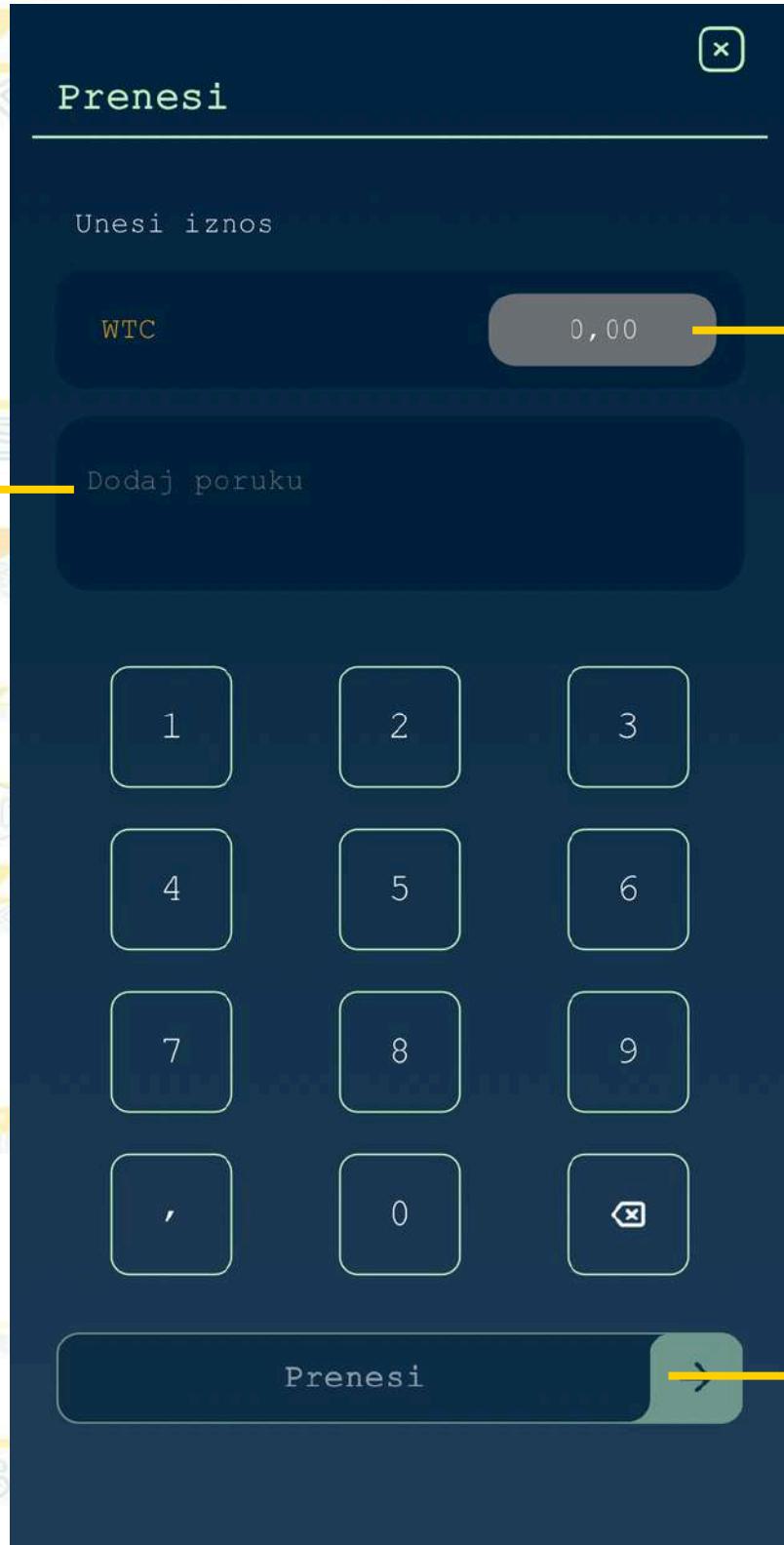
Odabiram opcije "Dodaj" u odjeljku "Prijatelji" možete iz svog imenika dodati osobe koje će biti uključene u brzo biranje, čime ćete omogućiti brže prebacivanje WTC tokena u budućim prijenosima



U označenom području moguće je pretražiti kontakte po imenu ili broju telefona

Prikazat će se svi Vaši kontakti, a pored onih koji imaju SparkShare aplikaciju bit će SparkShare logo

Nakon što među svojim kontaktima odaberete osobu prema kojoj želite izvršiti prijenos, otvorit će se sljedeći prozor:



Ukoliko želite,  
možete napisati  
poruku uz  
prijenos

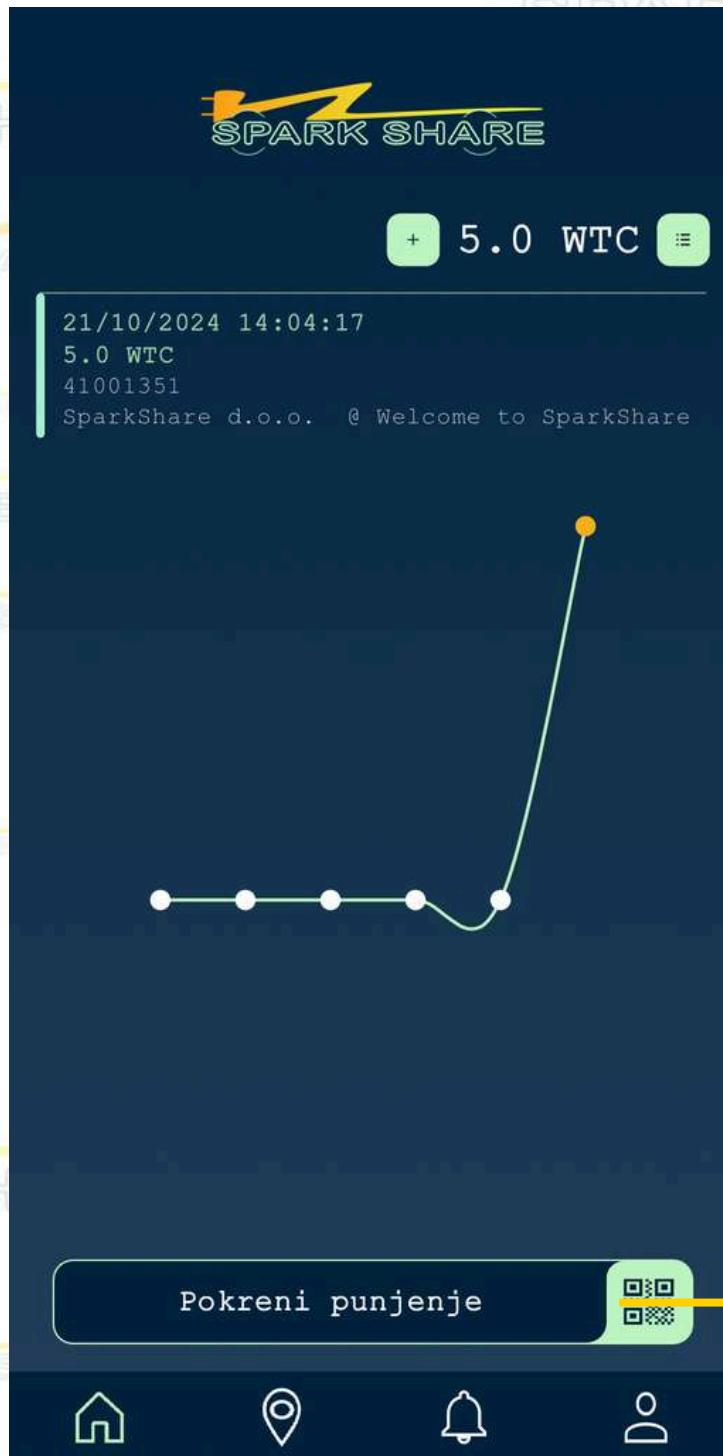
U označeno  
područje unesite  
iznos WTC tokena  
koje želite  
prenijeti

Nakon što ste  
unijeli željeni  
iznos te  
optionalno  
poruku, pritisnite  
"Prenesi"

# PUNJENJE NA SPARKSHARE LOKACIJAMA ZA KORISNIKE BEZ SPARKSHAREBOXEV-A

Ukoliko ne posjedujete vlastiti SparkShareBOXEV, punjenje Vašeg EV-a na SparkShare lokacijama je svakako moguće.

Potrebno je registrirati se u SparkShare mobilnu aplikaciju (objašnjeno u poglavlju 2) te uplatiti sredstva na svoj SparkShare račun (poglavlje 4).



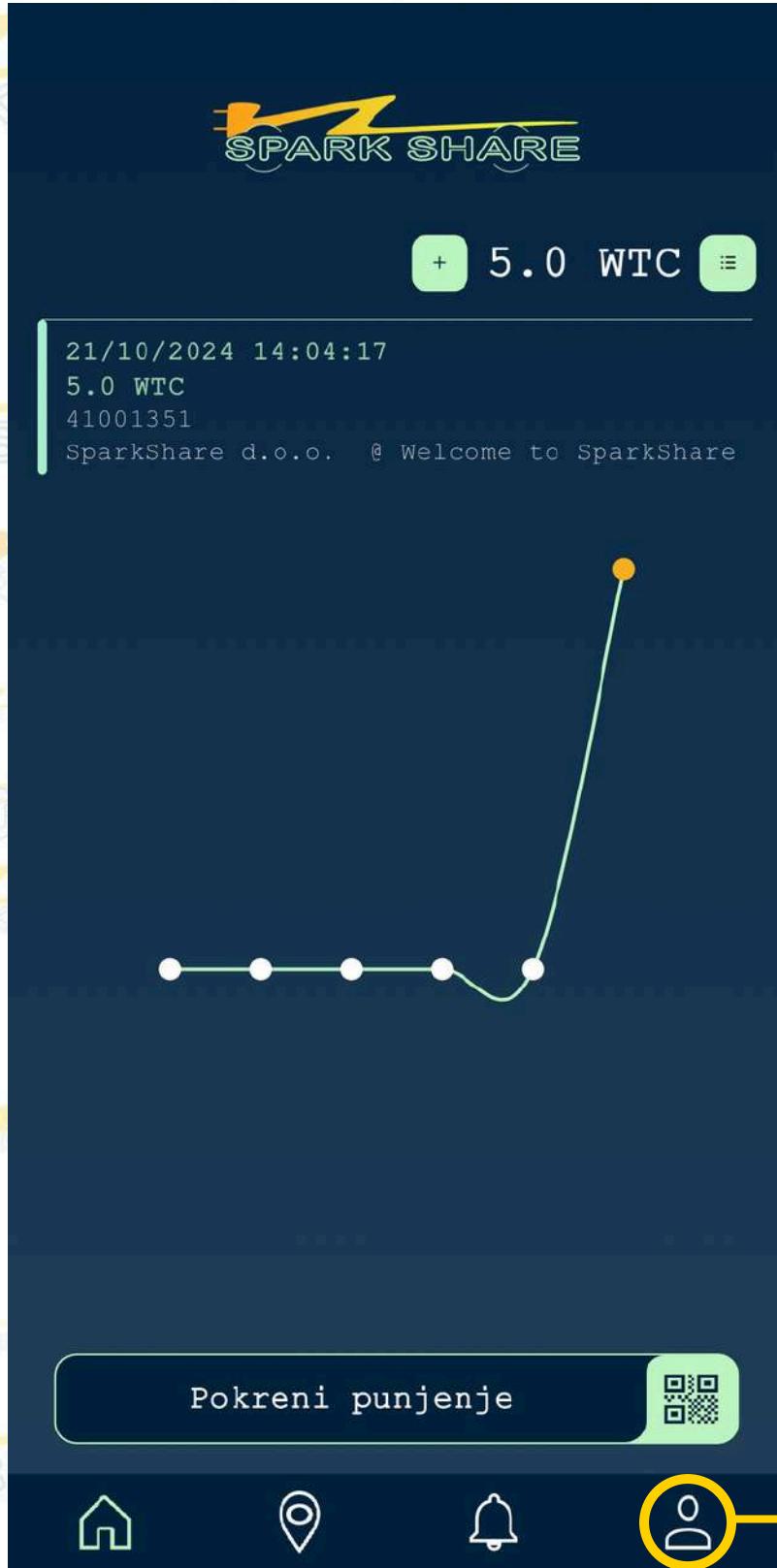
Za pokretanje punjenja, potrebno je na "Naslovnoj stranici" odabrati "Pokreni punjenje"

## Skeniranje QR koda

Približite Vaš mobilni uredaj  
naljepnici QR koda. Cijela oznaka treba  
biti unutar prikazanih rubova.  
Uključite bljeskalicu ako je potrebno.

Nakon odabira  
"Pokreni  
punjenje" otvorit  
će se prozor  
unutar kojeg je  
potrebno  
skenirati QR kod  
punjača nakon  
čega će punjenje  
započeti

# DEAKTIVACIJA UREĐAJA



Na "Naslovnoj stranici" odaberite "Profil"

Lea Grbavica

📞 +385 99 733 4594

✉️ info@sparkshare.eu



## Podaci

Osobni podaci

Moji uređaji

Kuponi

Prijava na portal

Kupi novi SparkShare BOX

Jezik

Croatian ▾

Brisanje računa



Statistika



Sigurnost



Podrška

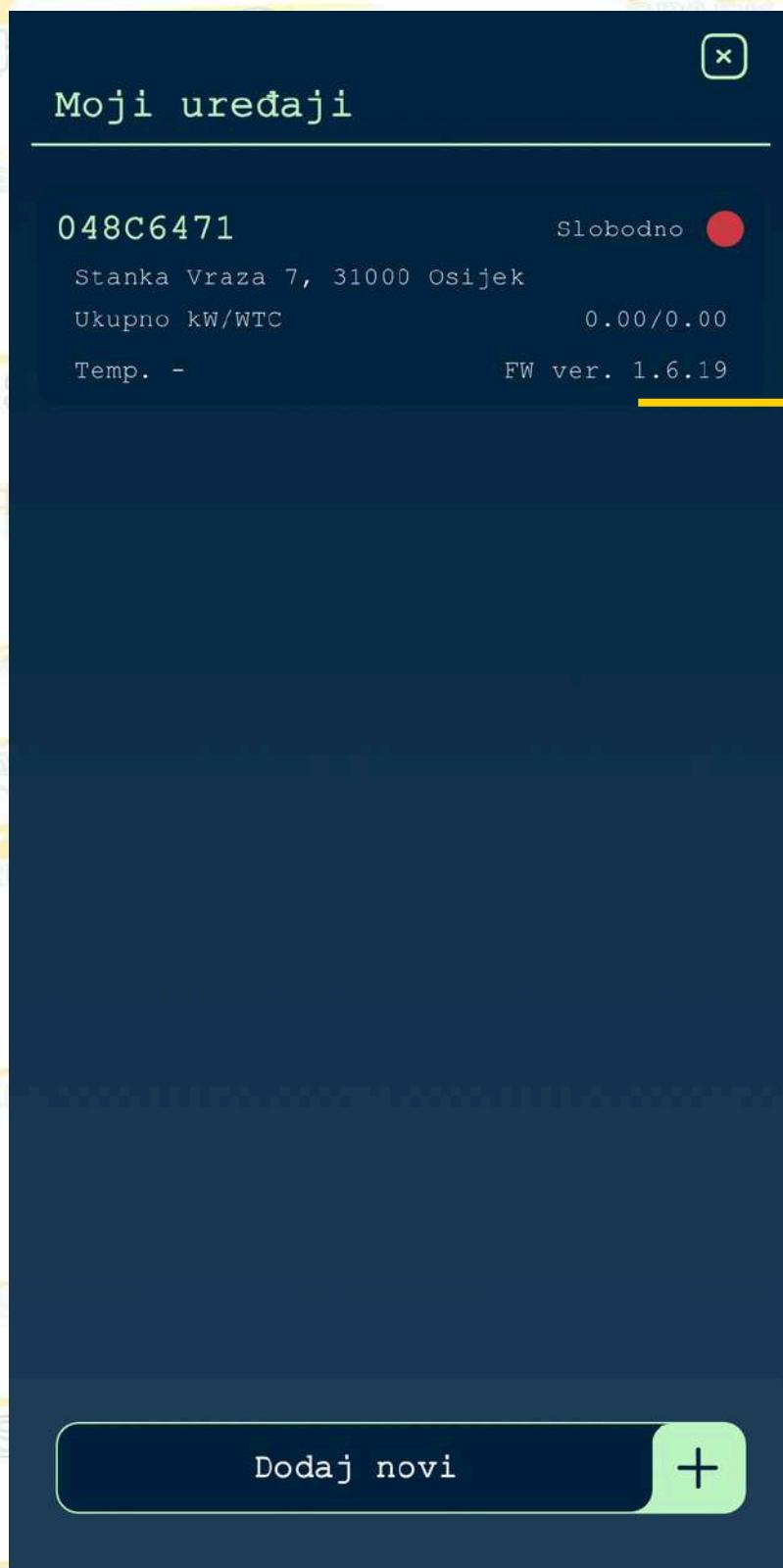


O nama



Odaberite  
"Moji uređaji"

Pod "Moji uređaji" prikazat će se svi uređaji povezani s korisničkim računom.



Odaberite uređaj  
za koji želite  
poduzeti određene  
radnje

## Korištenje uređaja

048C6471

WTC  kWh



Za deaktivaciju  
odabranog  
uređaja odaberite  
zaokruženu ikonu

## Deaktivacija uređaja

048C6471

Stanka Vraza 7, 31000 Osijek

Slobodno

Online status

Ukupno kW/WTC

0.0/0.0



Odaberite želite li samo deaktivirati uređaj sa svog korisničkog računa ili obrisati konfiguraciju uređaja ili vratiti uređaj na tvorničke postavke i deaktivirati sa svog računa.

Ukloni s računa



Ukloni i obriši podatke



Obriši konfiguraciju



Odabirom opcije "Ukloni s računa", uređaj će biti uklonjen s Vašeg računa. Svi prethodno uneseni podaci (opis, radno vrijeme, slike itd.) ostat će pohranjeni, što novom korisniku omogućuje jednostavnu aktivaciju bez ponovnog unosa informacija.

## Deaktivacija uređaja

048C6471

Stanka Vraza 7, 31000 Osijek

Slobodno

Online status

Ukupno kW/WTC

0.0/0.0



Odaberite želite li samo deaktivirati uređaj sa svog korisničkog računa ili obrisati konfiguraciju uređaja ili vratiti uređaj na tvorničke postavke i deaktivirati sa svog računa.

Ukloni s računa



Ukloni i obriši podatke



Obriši konfiguraciju



Odabirom opcije "Ukloni i obriši podatke", uređaj će biti uklonjen s Vašeg računa, a svi uneseni podaci (opis, radno vrijeme, slike itd.) bit će trajno izbrisani. Ova opcija je korisna u slučaju kada planirate prodati uređaj, jer osigurava da novi korisnik neće imati pristup Vašim podacima.

## Deaktivacija uređaja

048C6471

Stanka Vraza 7, 31000 Osijek

Slobodno

Online status

Ukupno kW/WTC

0.0/0.0



Odaberite želite li samo deaktivirati uređaj sa svog korisničkog računa ili obrisati konfiguraciju uređaja ili vratiti uređaj na tvorničke postavke i deaktivirati sa svog računa.

Ukloni s računa



Ukloni i obriši podatke



Obriši konfiguraciju

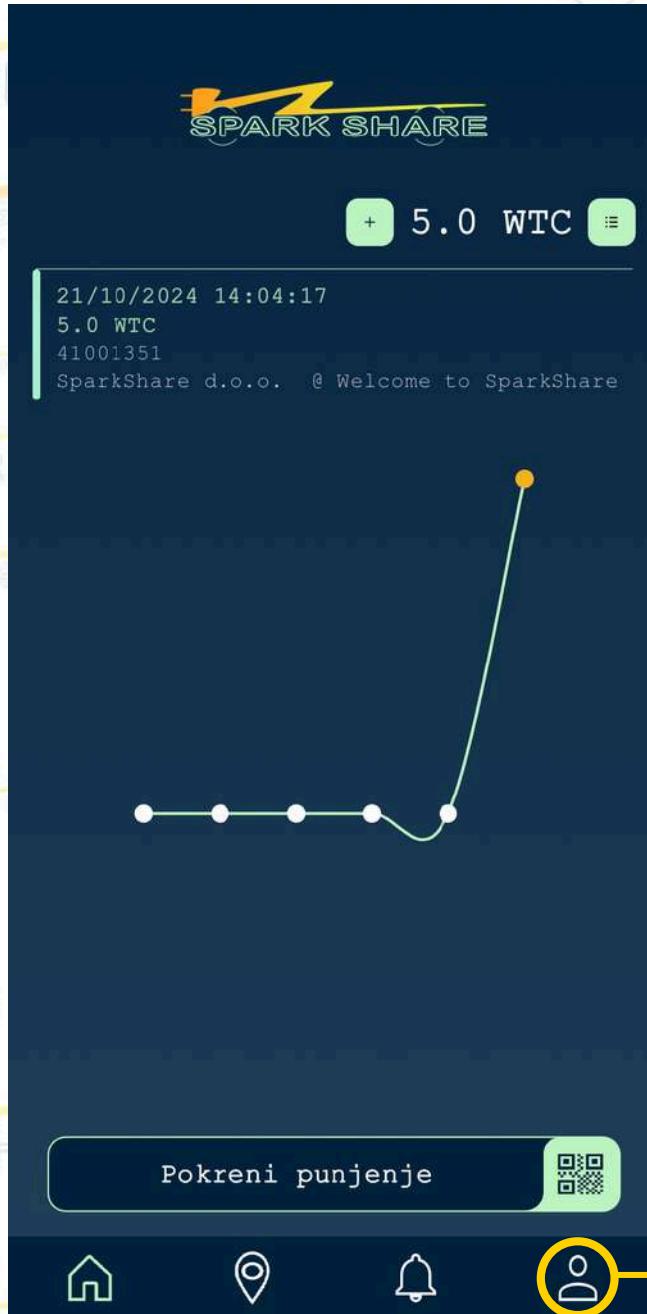


Odabirom opcije "Obriši konfiguraciju", svi podaci koji su uneseni za taj uređaj (opis, radno vrijeme, slike itd.) bit će trajno izbrisani. Ova opcija je korisna kada želite resetirati uređaj na početna podešavanja, primjerice, nakon što ste unijeli brojne izmjene i želite se vratiti na izvorno stanje.

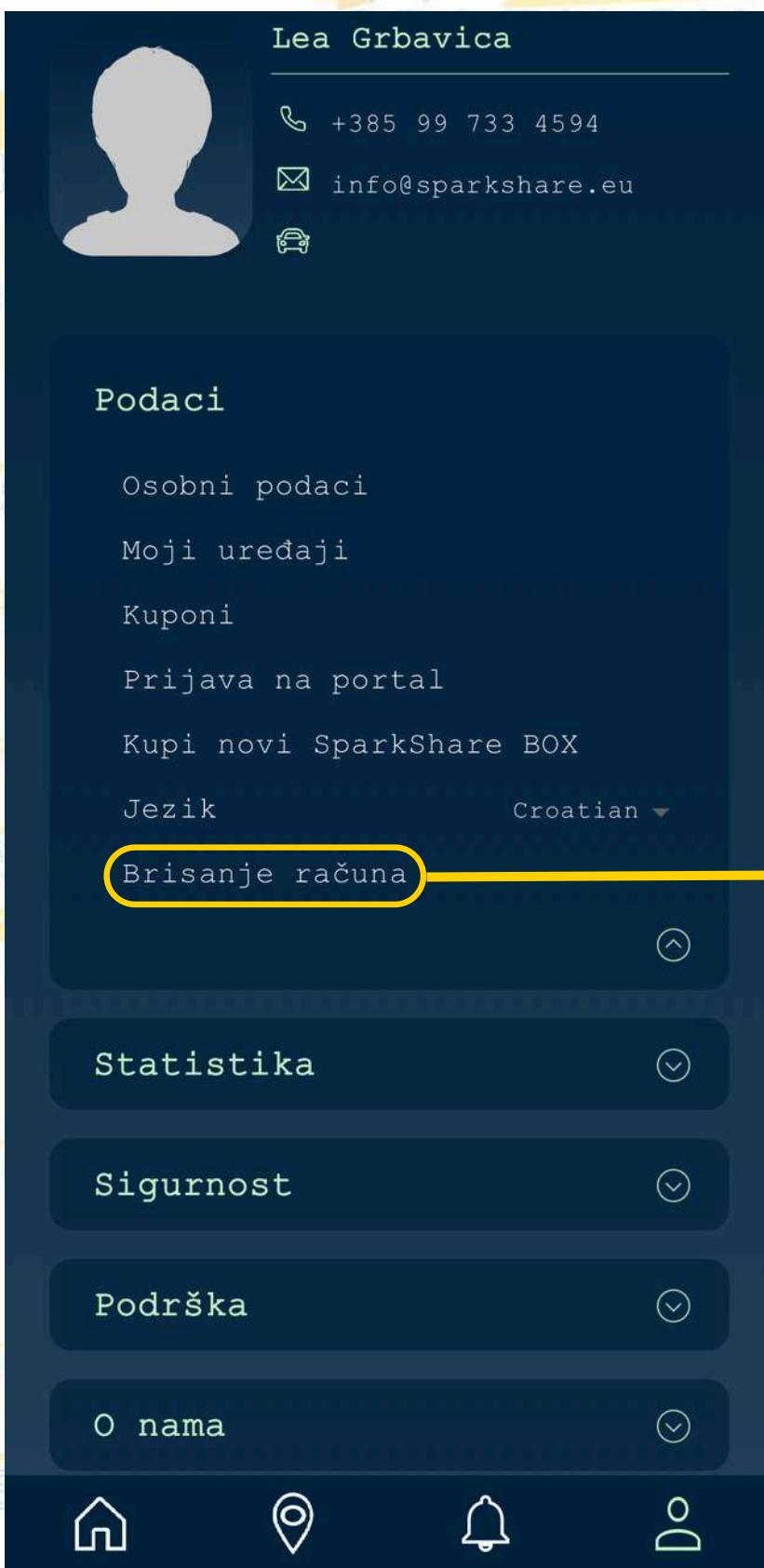
# BRISANJE RAČUNA

Opcija "Brisanje računa" služi za trajno uklanjanje Vašeg korisničkog računa iz SparkShare aplikacije. Ovim postupkom će se deaktivirati svi uređaji povezani s Vašim računom.

Ova opcija je korisna kada ste, primjerice, instalirali SparkShare mobilnu aplikaciju, aktivirali je, koristili, a zatim odlučili da više ne želite koristiti SparkShare aplikaciju.



Na "Naslovnoj stranici" odaberite "Profil"



Na "Profilu"  
odaberite  
"Brisanje  
uređaja"

## Brisanje računa

Korisnički račun:

Lea Grbavica

Uredaji:

048C6471

Stanje WTC:

5.1



Odabirom opcije obriši račun ukloniti će se Vaš korisnički račun, obrisati će se i deaktivirati svi Vaši uređaji kao i svo presotalo stanje WTC-a na Vašem računu.

Obrisí račun



Otvorit će Vam se "Brisanje računa" gdje su navedeni uređaji povezani s Vašim korisničkim računom te Vaše stanje WTC-a na računu

Ukoliko želite obrisati sve od navedenog, odaberite "Obriši račun"



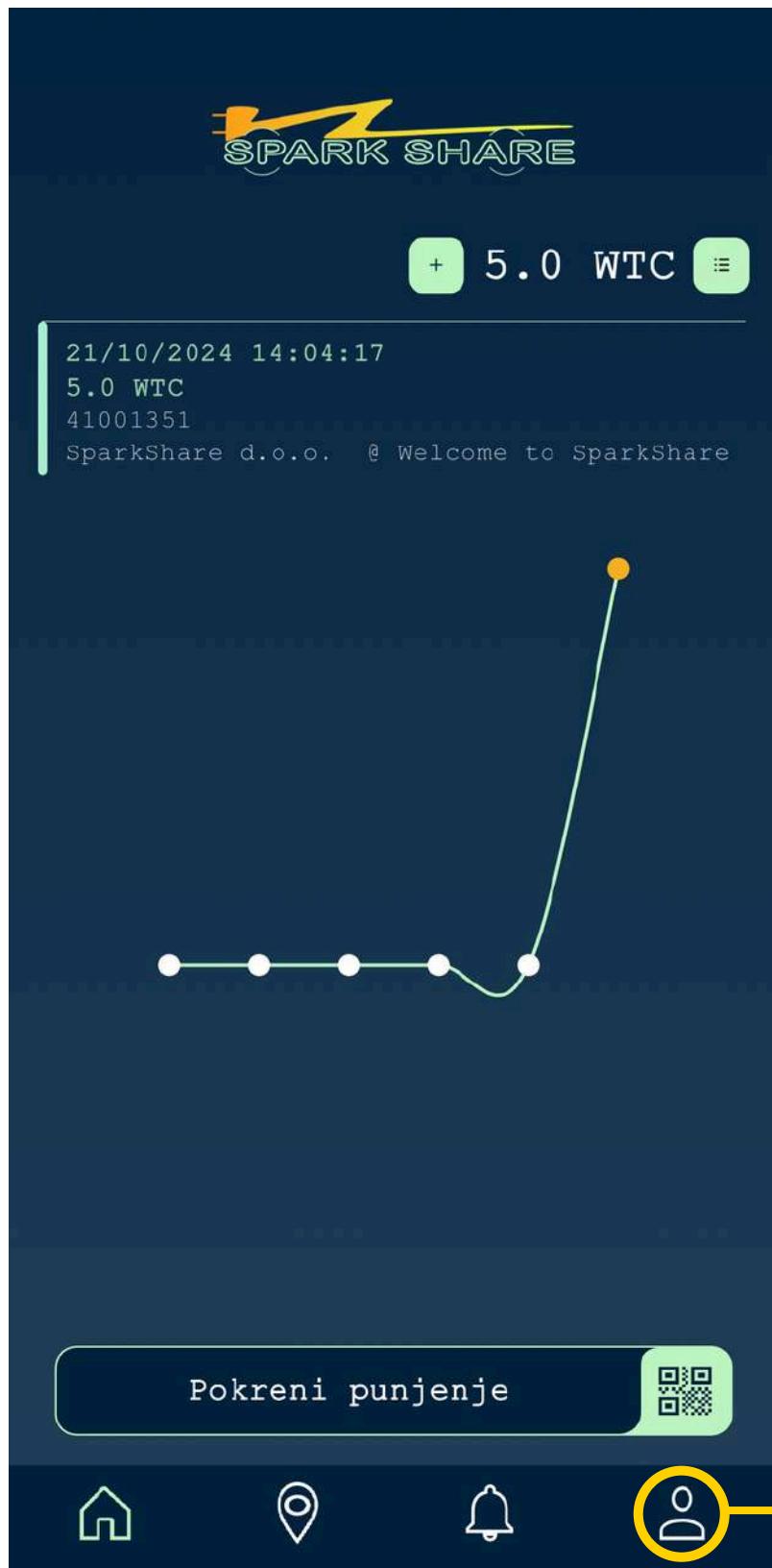
# **SPARKSHARE PORTAL**

# SADRŽAJ

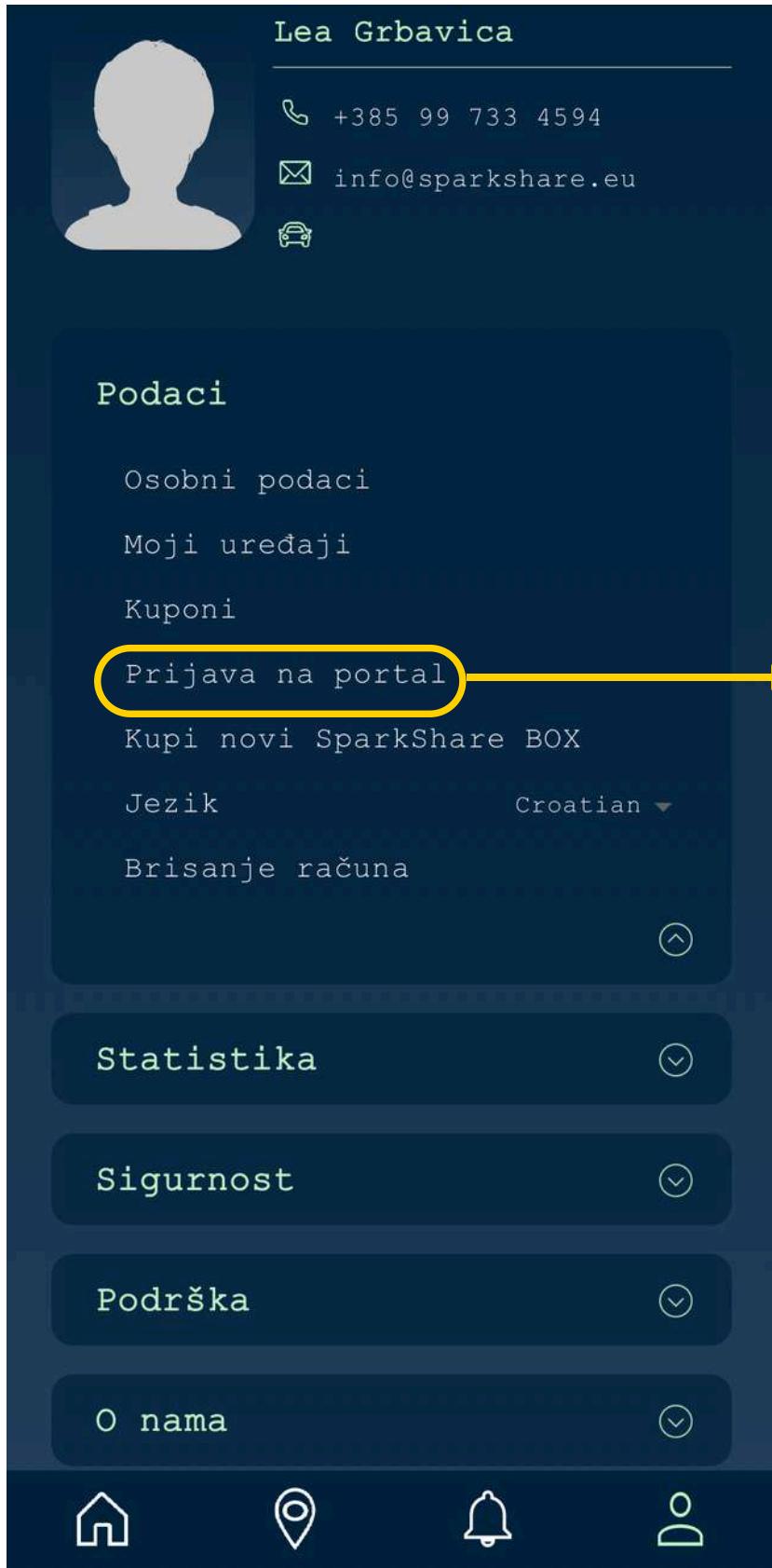
1. Prijava na SS Portal	83
2. SparkShare box	87
• Podaci	87
• HeartBit	88
• Trenutno punjenje	89
• DNS akcije	90
• Punjenja	91
• EVSE	92
• Int.mjerena	94
• Kuponi	96
• Mapa	100
3. Promet računa	101
4. Izdane fakture	102
5. Prijava problema	103
6. Profil	104
7. Korištenje sustava i sigurnosne mjere	105
8. Zaštita osobnih podataka	105

# PRIJAVA NA SS PORTAL

Putem SparkShare mobilne aplikacije vrši se prijava na SparkShare Portal.

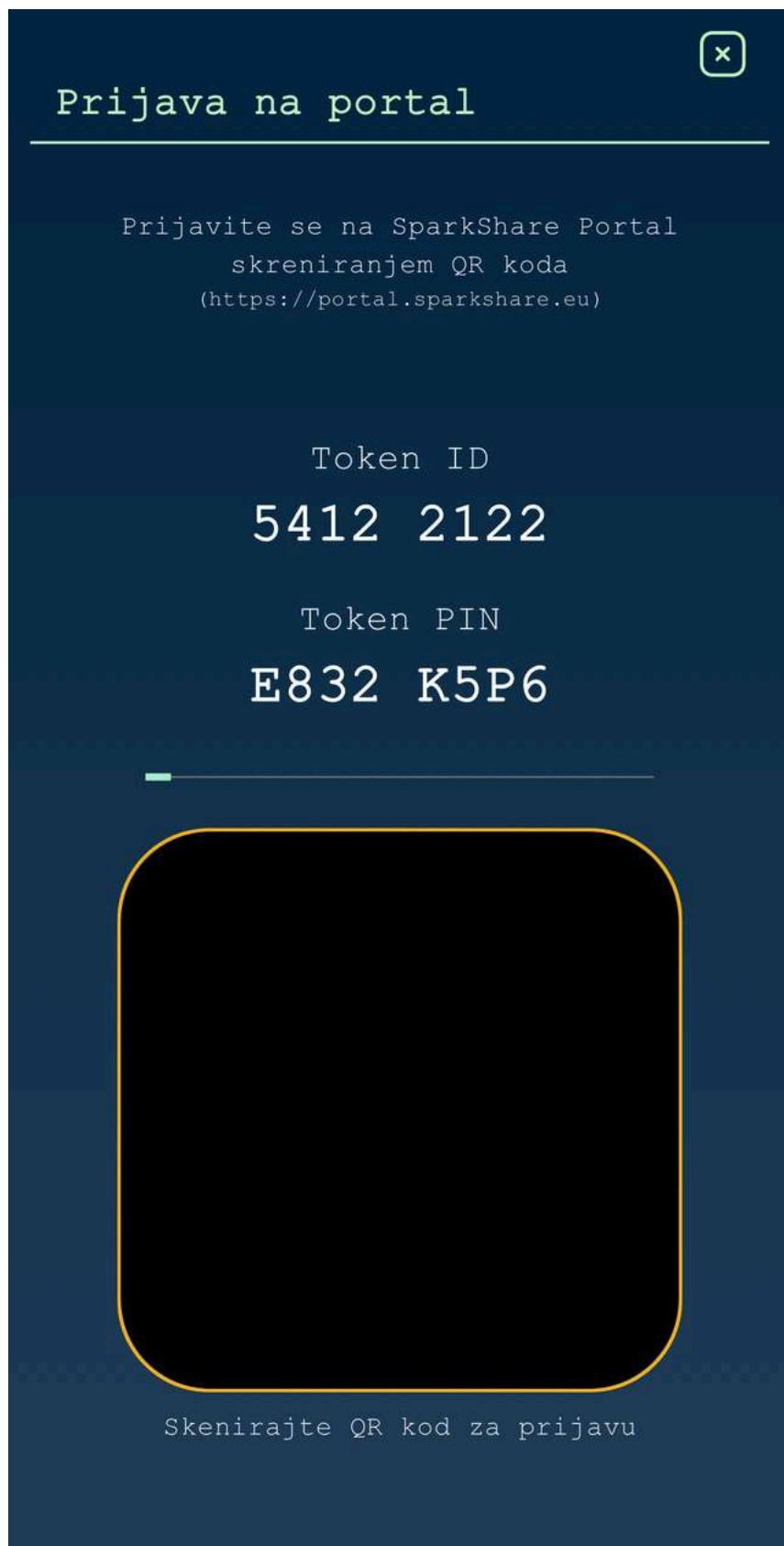


Na "Naslovnoj stranici" odaberite "Profil"

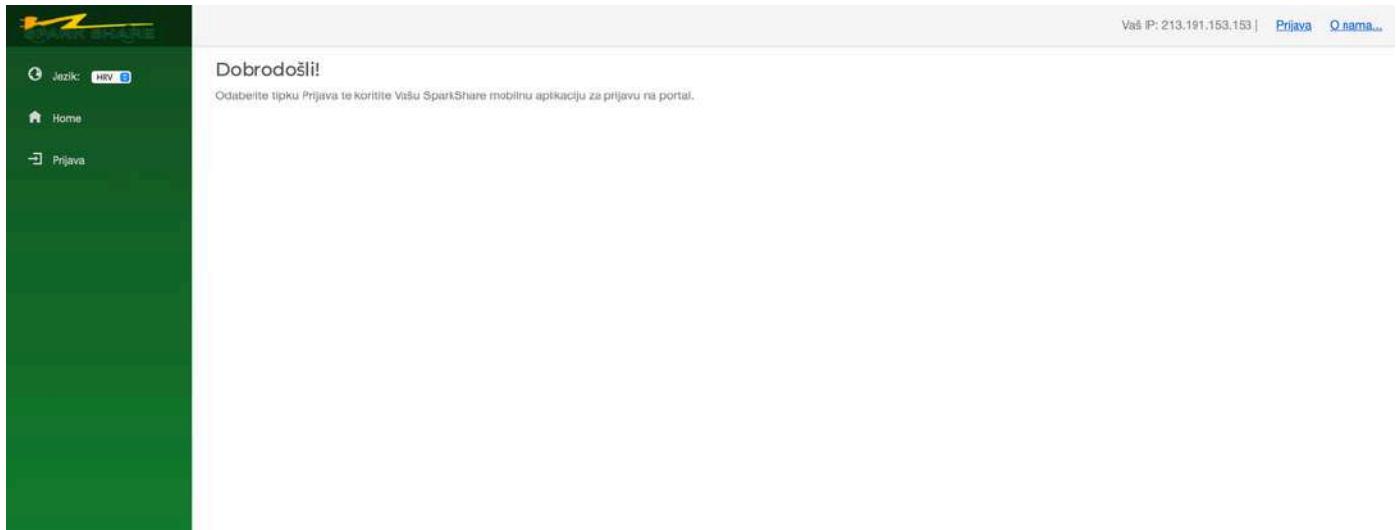


Odaberite  
"Prijava na  
portal"

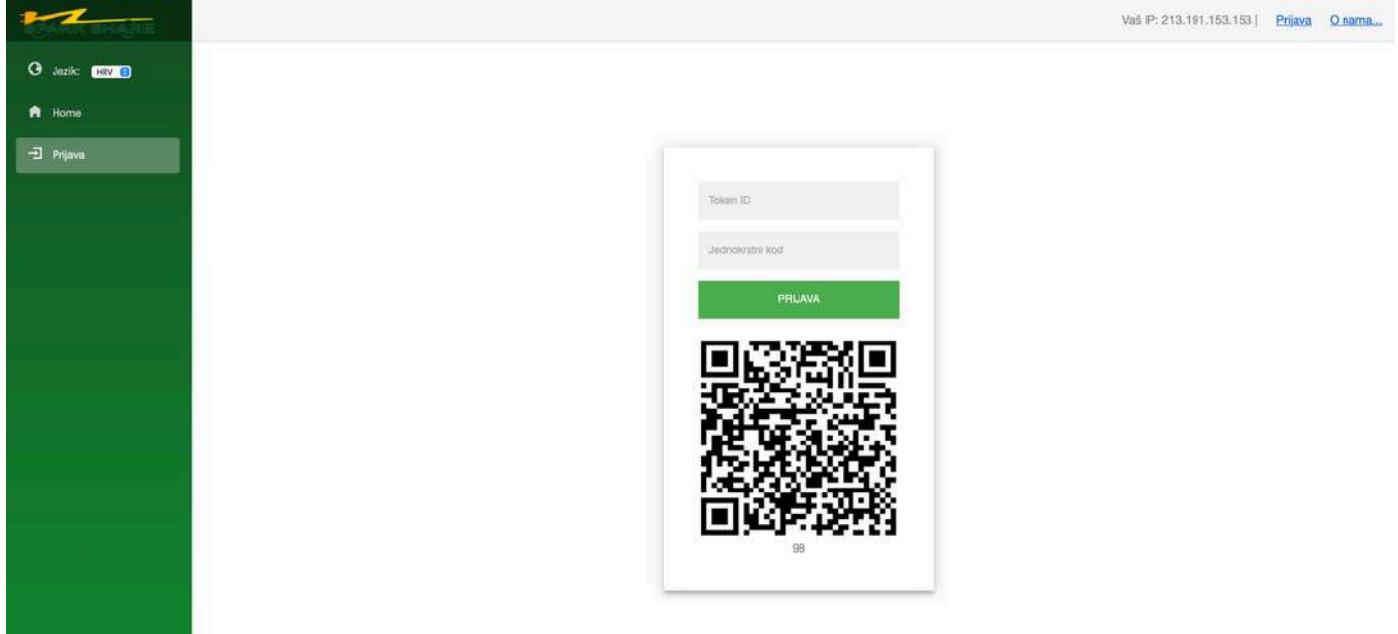
Nakon što odaberete opciju "Prijava na portal", otvorit će se prozor u kojem je potrebno skenirati QR kod.



Za pronalaženje QR koda, posjetite web stranicu [SparkShare Portala](#) ([portal.sparkshare.eu](http://portal.sparkshare.eu))



Na početnoj stranici odaberite opciju "Prijava" u gornjem desnom kutu.



Mobilnom aplikacijom skenirate QR kod.

# SPARKSHARE BOX

## PODACI

U ovom izborniku imate detaljan pregled i kontrolu nad svojim punjačem, uključujući opcije kao što su ponovno pokretanje (Reboot), upravljanje najnovijim Firmware-om, kao i kontrolu samog procesa punjenja. Ovdje su prikazani svi relevantni podaci o Vašem punjaču, no napominjemo da podaci, poput informacija o proizvodnji, boji ukrasne kutije, kalibraciji napona i sličnih tehničkih karakteristika, nisu podložni izmjeni.

- Tipka Reboot: Odabirom ove opcije izvršit ćete ponovno pokretanje Vašeg uređaja. Koristite je s oprezom, jer je namijenjena rješavanju ozbiljnijih tehničkih poteškoća. Ne preporučuje se za manje probleme, jer nepotrebna upotreba može dovesti do gubitka podataka ili prekida rada sustava.
- Tipka Download QR: Klikom na ovu opciju aplikacija će preuzeti QR kod Vašeg punjača na Vaš uređaj te ga možete isprintati i postaviti na SparkShare box. Skeniranjem QR koda možete jednostavno započeti punjenje na Vašem uređaju.
- Tipka Print QR: Odabirom ove opcije možete ispisatiti QR kod svog punjača na predlošku koji uključuje upute za preuzimanje aplikacije, dodavanje sredstava i pokretanje punjenja. Ispod QR koda ( na stranici portala) nalazi se oznaka Start charge watermark koja omogućuje dodatnu prilagodbu predloška — možete odabrati vlastitu fotografiju kao pozadinu za QR predložak punjača.
- Tipka Edit: Klikom na ovu opciju možete postaviti vidljivost na mapi, lokaciju, tip konektora, opis, radno vrijeme, dodatne usluge,..

Ispod ovih tipki prikazani su detalji o uređaju, uključujući trenutnu verziju Firmware-a koja je instalirana na punjaču, kao i RegID Vašeg uređaja. Ovi podaci omogućuju bolji pregled stanja uređaja i održavanje njegove funkcionalnosti.

# HEARTBIT

Ovaj podizbornik omogućuje praćenje komunikacije uređaja prema cloud-u u stvarnom vremenu.

The screenshot shows the Heartbit web application interface. On the left is a dark sidebar menu with various options like 'Promet racuna', 'Izdane fakture', 'Prijava problem', etc. The main area is titled 'SparkShare uređaji' and shows a table of device communications. The table has columns for 'Id', 'Sec No', 'Vrijeme', 'Odgovor', and 'Odgovor DNS'. There are 10 rows of data, each showing a unique ID, sequence number, timestamp, and response status ('Stay Idle'). At the top of the main area, there are tabs for 'Podaci', 'HeartBit' (which is selected), 'Tren. punjenje', 'DNS akcije', 'Punjenja', 'EVSE', 'Int. mjerjenja', 'Kupon', and 'Napomena'. A 'Live update' checkbox is also present. The bottom of the page includes a copyright notice: 'v1.41.1.0 © 2025 SparkShare d.o.o.'

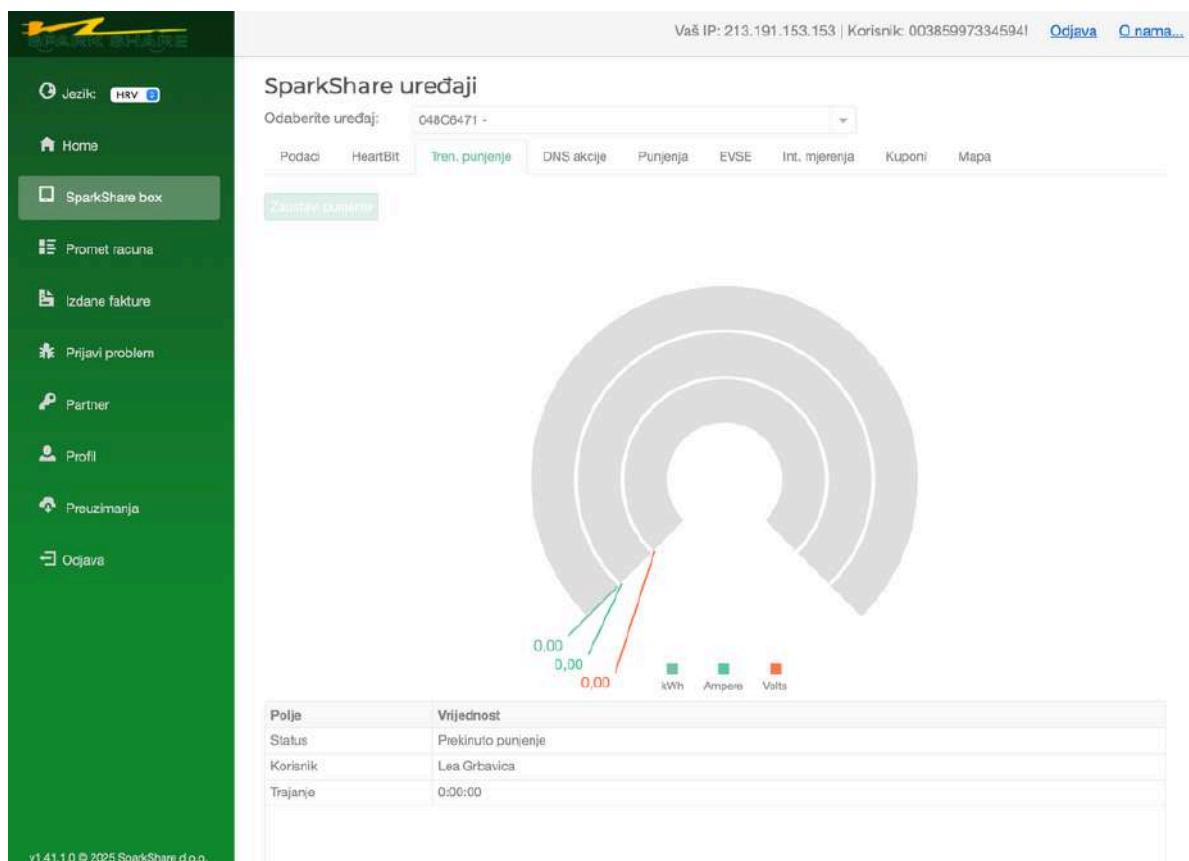
Id	Sec No	Vrijeme	Odgovor	Odgovor DNS
37372084	74	20.01.2025 11:52:55	Stay Idle	1.0.0.0
37372073	73	20.01.2025 11:52:51	Stay Idle	1.0.0.0
37372062	72	20.01.2025 11:52:47	Stay Idle	1.0.0.0
37372051	71	20.01.2025 11:52:43	Stay Idle	1.0.0.0
37372040	70	20.01.2025 11:52:39	Stay Idle	1.0.0.0
37372028	69	20.01.2025 11:52:35	Stay Idle	1.0.0.0
37372016	68	20.01.2025 11:52:31	Stay Idle	1.0.0.0
37372005	67	20.01.2025 11:52:27	Stay Idle	1.0.0.0
37371992	66	20.01.2025 11:52:22	Stay Idle	1.0.0.0
37371980	65	20.01.2025 11:52:18	Stay Idle	1.0.0.0

## TRENUTNO PUNJENJE

Ovaj podizbornik omogućuje Vam praćenje i kontrolu trenutnog procesa punjenja na Vašem uređaju. Pruža uvid u ključne informacije poput statusa punjenja, korisnika koji trenutno koristi Vaš punjač, te vremena početka i trajanja punjenja.

Uz te osnovne podatke, možete vidjeti i tehničke parametre kao što su trenutni napon, struja, snaga i količina energije koju uređaj registrira tijekom punjenja.

U odjeljku Detalji dostupni su dodatni podaci, uključujući napone i struje po fazama, temperature unutar uređaja, te frekvenciju napona. Ovi detalji omogućuju dublji uvid u tehničke aspekte rada našeg punjača i njegovo stanje tijekom procesa punjenja.



## DNS AKCIJE

U ovom podizborniku moguće je pogledati podatke koji se šalju između uređaja i cloud-a u stvarnom vremenu. Pritisom na tipku u zadnjoj koloni, moguće je vidjeti cijeli JSON string iz tog reda akcije.

The screenshot shows the 'SparkShare uređaji' section of the application. At the top, there is a dropdown menu 'Odaberite uređaj:' set to '048C6471'. Below it is a navigation bar with tabs: 'Podaci', 'HeartBit', 'Tren. punjenje', 'DNS akcije' (which is highlighted in green), 'Punjena', 'EVSE', 'Int. mjerjenja', 'Kupon', and 'Mapa'. A date selector 'Na dan' is also present. A checkbox 'Live update' is located at the top right. The main area displays a table titled 'Top 10' with columns: Id, RegID, Tip, extID, Vrijeme, Status, and #. The table contains 10 rows of data, each with a detailed view button icon. The data in the table is as follows:

Id	RegID	Tip	extID	Vrijeme	Status	#
2365	183	Konfiguracija		10. 18.02.2025 12:28:27	Neobradeno	
2354	183	Konfiguracija		10. 18.02.2025 12:25:00	Poništeno	
2134	183	Konfiguracija		10. 05.02.2025 11:49:17	Poništeno	
2133	183	Konfiguracija		10. 05.02.2025 11:47:45	Poništeno	
2113	183	Punjene	794	03.02.2025 10:22:39	Poništeno	
2112	183	Punjene	783	03.02.2025 10:16:34	Poništeno	
1929	183	Konfiguracija		10. 16.01.2025 12:41:28	Obradeno	
1928	183	Punjene	712	16.01.2025 12:41:26	Obradeno	
1927	183	Konfiguracija		10. 16.01.2025 12:40:52	Obradeno	
1926	183	Konfiguracija		10. 16.01.2025 12:39:33	Obradeno	

Primjer jednog JSON stringa:

The screenshot shows the same interface as the previous one, but with a modal window open over the table. The modal title is 'JSON: 4670227'. It contains two sections: 'REQUEST:' and 'RESPONSE:'. The REQUEST section shows a JSON object with fields: 'regid': 183, 'nonce': "20250116114141087", and 'signature': "7Bw0al426C3TU3n+V8NzdF+BCYF0Xv+40FHAdMnsls2scIel8Hn/34TChkJec". The RESPONSE section shows a more complex JSON object with many nested fields like 'dnsticK', 'chargeTick', 'rfid', 'kalibracija', 'napom', 'struja', 'evse', 'ledcolors', 'ErrorCode', and 'ErrorMsg'.

```
REQUEST: [IP: 213.191.153.153; time: 16.01.2025 12:41:28]
{
    "regid": 183,
    "nonce": "20250116114141087",
    "signature": "7Bw0al426C3TU3n+V8NzdF+BCYF0Xv+40FHAdMnsls2scIel8Hn/34TChkJec"
}

RESPONSE: [IP: 213.191.153.153; time: 16.1.2025. 12:41:43]
{
    "nonce": "20250116114143298",
    "signature": "M7qmC/u6bsqJggu67TmkEAjB2yft0HEVxLyntNtGqa4=",
    "config": {
        "dnsticK": 4000,
        "chargeTick": 3000,
        "rfid": 0,
        "kalibracija": {
            "napom": 1.0,
            "struja": 1.0
        },
        "evse": {
            "pvm": 10,
            "charger": 1
        },
        "ledcolors": {
            "Green": 65280,
            "Red": 255,
            "Blue": 1671500,
            "Yellow": 4194303,
            "CarConnected": 65280
        }
    },
    "ErrorCode": 0,
    "ErrorMsg": "Sve OK"
}
```

## PUNJENJA

Podizbornik Punjenja omoguće uvid u sva punjenja koja su se vršila na Vašem punjaču.

The screenshot shows a web-based management interface for a SparkShare device. The left sidebar has a green background with various menu items: Jezik (HRV), Home, SparkShare box, Promet rasuna, Izdane fakture, Prijavi problem, Partner, Profil, Preuzimanja, and Odjava. The main content area is titled "SparkShare uređaji" and shows a table of充電记录 (Punjenja) for device 048C6471. The table has columns: Id, RegID, Session, Osoba, RFID, Req sTime, and fTime. There are 4 rows of data, each with a "Details" button. At the top of the table, there are filters for Top 10, Excel export, and a "Live update" checkbox. The top right of the page shows the IP address (Vaš IP: 213.191.153.153), user ID (Korisnik: 00285997334594!), and links for Odjava and O nama... .

Id	RegID	Session	Osoba	RFID	Req sTime	fTime
794	183	53A4A4D7-36BE-43E9-B08B-F2A9AC07FB2E	Lea Grbavica		03.02.2025 10:22:39	
793	183	ED44C007-9552-4DD0-93F3-48E9316A3AB5	Lea Grbavica		03.02.2025 10:16:34	
712	183	6BCCBC3A-F722-4021-B804-318C2D39E16A	Karlo Kosina		16.01.2025 12:41:26	
711	183	BE5CCE0C-1FEF-4BD7-8611-6E5FEB1B060C	Karlo Kosina		16.01.2025 12:39:17	

Svako punjenje ima svoj jedinstveni Session ID, a u polju Osoba moguće je vidjeti koji je korisnik koristio punjač.

Polje Req sTime pokazuje vrijeme kada je zahtjev poslan od uređaja prema serveru, sTime pokazuje vrijeme kada je započela radnja, a fTime pokazuje kada je završen zahtjev. Dok se EV puni na punjaču i tipka Live update je uključena, vrijeme u zadnjem polju se stalno mijenja.

Osoba	RFID	Req sTime	sTime	fTime	Status	#
Grbavica		03.02.2025 10:22:39			Prekinuto punjenje	
Grbavica		03.02.2025 10:16:34			Prekinuto punjenje	
Karlo Kosina		16.01.2025 12:41:26	16.01.2025 12:41:29	16.01.2025 12:41:40	Prekinuto punjenje	
Karlo Kosina		16.01.2025 12:39:17	16.01.2025 12:39:38	16.01.2025 12:39:49	Prekinuto punjenje	

## EVSE

Opcija EVSE u SparkShare sustavu omogućava korisnicima pregled BoxEV-a za punjenje električnih vozila (EVSE - Electric Vehicle Supply Equipment). Ovaj odjeljak pruža detaljne informacije o zahtjevima za punjenje, statusu BoxEV-a i ključnim električnim parametrima.

### Pregled podataka

U tabličnom prikazu dostupni su sljedeći podaci:

- ID – jedinstveni identifikator zapisa.
- Vrijeme zahtjeva (Req. time) – vrijeme kada je zahtjev za punjenje evidentiran.
- RegID – identifikacijski broj BoxEV-a.
- Status – trenutno stanje BoxEV-a (npr. "nema auta" ako vozilo nije povezano).
- ADC min, ADC max, ADC avg – minimalne, maksimalne i prosječne vrijednosti ADC (Analog-to-Digital Converter) signala, koje pomažu u praćenju napona i struje tijekom punjenja.
- ADC points – broj prikupljenih ADC podataka za analizu.
- Session – identifikator sesije punjenja.

### Ključne funkcionalnosti

- Live Update – omogućava praćenje statusa u stvarnom vremenu.
- Izvoz podataka – opcija Excel omogućava preuzimanje podataka za daljnju analizu.
- Filtriranje i sortiranje – korisnici mogu filtrirati podatke prema različitim parametrima radi lakšeg pregleda.

Ova opcija omogućava nadzor rada BoxEV-a, identifikaciju problema te analizu performansi, čime se optimizira rad infrastrukture za punjenje električnih vozila.



SparkShare

Jezik: HRV 

Home

SparkShare box

Promet racuna

Izdane fakture

Prijavi problem

Partner

Profil

Preuzimanja

Odjava

Vaš IP: 213.191.153.153 | Korisnik: 00385997334594! [Odjava](#) [O nama...](#)

## SparkShare uređaji

Odaberite uređaj: 04BC6471 -

Podaci HeartBit Tren. punjenja DNS akcije Punjenja EVSE Int. mjerena Kuponi Mapa

Excel

Na dan 

Live update

Top 10 

ID	Req. time	RegID	Status	ADC min	ADC max	ADC avg	ADC points	Session	#
181515	05.11.2024 14:54:32	183	0 - nema auta	3332	3362	3346	104		
181506	05.11.2024 14:48:32	183	0 - nema auta	3337	3366	3353	118		
181501	05.11.2024 14:42:31	183	0 - nema auta	3331	3365	3350	129		
181494	05.11.2024 14:36:31	183	0 - nema auta	3337	3362	3349	113		
181487	05.11.2024 14:30:32	183	0 - nema auta	3342	3362	3353	117		
181480	05.11.2024 14:24:32	183	0 - nema auta	3342	3362	3350	129		
181473	05.11.2024 14:18:31	183	0 - nema auta	3334	3361	3350	106		
181466	05.11.2024 14:12:31	183	0 - nema auta	3335	3366	3350	124		
181459	05.11.2024 14:06:31	183	0 - nema auta	3342	3367	3352	100		
181452	05.11.2024 14:00:32	183	0 - nema auta	3337	3361	3351	111		

## INT. MJERENJA

Opcija Interna mjerena u SparkShare sustavu omogućava korisnicima pregled ključnih električnih parametara uređaja u realnom vremenu. Ova funkcionalnost je posebno korisna za praćenje performansi i stabilnosti rada uređaja.

### Pregled podataka

Unutar ovog odjeljka prikazuju se sljedeće vrijednosti:

- Vrijeme – točan datum i vrijeme mjerena.
- Napon (Voltage) – vrijednosti napona za tri faze (U1, U2, U3).
- Struja (Current) – vrijednosti struje za tri faze (I1, I2, I3).
- Ukupna energija (Total E.) – potrošena energija u jedinicama koje koristi sustav.
- Temperatura (Temp.) – trenutna temperatura uređaja.
- Frekvencija (Freq.) – frekvencija električne mreže.
- EVSE – identifikacijski broj stanice za punjenje.
- Memorija uređaja (Memory heap) – stanje radne memorije uređaja.
- WiFi – informacije o mrežnoj povezanosti uređaja, uključujući naziv mreže (SSID) i jačinu signala (RSSI).

### Ključne funkcionalnosti

- Live Update – omogućava prikaz podataka u stvarnom vremenu.
- Izvoz podataka – opcija Excel omogućava preuzimanje podataka u Excel formatu za daljnju analizu.
- Filtriranje i sortiranje – moguće je filtrirati podatke prema različitim kriterijima.

Ova opcija pruža detaljan uvid u operativno stanje uređaja, što omogućava pravovremeno otkrivanje problema i optimizaciju rada sustava.



Jezik: HRV

- [Home](#)
- [SparkShare box](#)
- [Promet racuna](#)
- [Izdane fakture](#)
- [Prijava problem](#)
- [Partner](#)
- [Profil](#)
- [Preuzimanja](#)
- [Odjava](#)

v1.41.1.0 © 2025 SparkShare d.o.o.

Vaš IP: 213.191.153.153 | Korisnik: 00385997334594! [Odjava](#) [O nama...](#)

## SparkShare uređaji

Odaberite uređaj: 048C6471 -

Podaci HeartBit Trn. punjenje DNS akcije Punjenja EVSE **Int. mjerenja** Kuponi Mapa

Excel

Na dan



Top 10

Live update

id	Vrijeme	Voltage			Current			Total E.	Temp.	Freq.	EVSE	Mem Current
		U1	U2	U3	I1	I2	I3					
7105845	20.01.2025 11:52:53	242,34	0,14	0,06	0,03	0,01	0,01	4	26,00	50,00	3342	907
7105835	20.01.2025 11:52:42	242,10	0,14	0,06	0,03	0,01	0,01	4	26,00	50,00	3344	907
7105825	20.01.2025 11:52:32	242,38	0,14	0,06	0,03	0,01	0,01	4	26,00	50,00	3344	907
7105815	20.01.2025 11:52:22	242,41	0,14	0,06	0,03	0,01	0,01	4	25,00	50,00	3342	907
7105805	20.01.2025 11:52:12	242,55	0,14	0,06	0,03	0,01	0,01	4	25,00	50,00	3342	907
7105795	20.01.2025 11:52:02	242,86	0,14	0,06	0,03	0,01	0,01	4	25,00	50,00	3343	907
7105785	20.01.2025 11:51:52	242,96	0,14	0,06	0,03	0,01	0,01	3	25,00	50,00	3342	907
7105775	20.01.2025 11:51:42	242,53	0,14	0,06	0,03	0,01	0,01	3	25,00	50,00	3344	907
7105765	20.01.2025 11:51:32	242,62	0,14	0,06	0,03	0,01	0,01	3	25,00	50,00	3343	907
7105755	20.01.2025 11:51:21	242,29	0,14	0,06	0,03	0,01	0,01	3	25,00	49,00	3341	907

# KUPONI

Ukoliko želite omogućiti nekome besplatno punjenje ili punjenje po povoljnijoj cijeni, to možete ostvariti putem kupona.

The screenshot shows the SparkShare uređaji (Devices) page. On the left is a sidebar with various links: Promet racuna, Izdane fakture, Prijava problem, Partner, Profil, Preuzimanja, and Odjava. The main area has tabs: Podaci, HeartBit, Tren. punjenje, DNS akcije, Punjenja, EVSE, Int. mjerjenja, Kuponi (which is selected), and Mapa. Below the tabs is a sub-tab Excel | Novi unos. A search bar says Odaberite uređaj: 048C0471 -. The main content is a table titled "SparkShare uređaji" with columns: id, Vri. unos, Kupon, Status, Aktivacija do, Tip aktivacije, Tip potrošnje, and Vrijednost. The table contains 15 rows of coupon data. Each row has a delete icon in the last column.

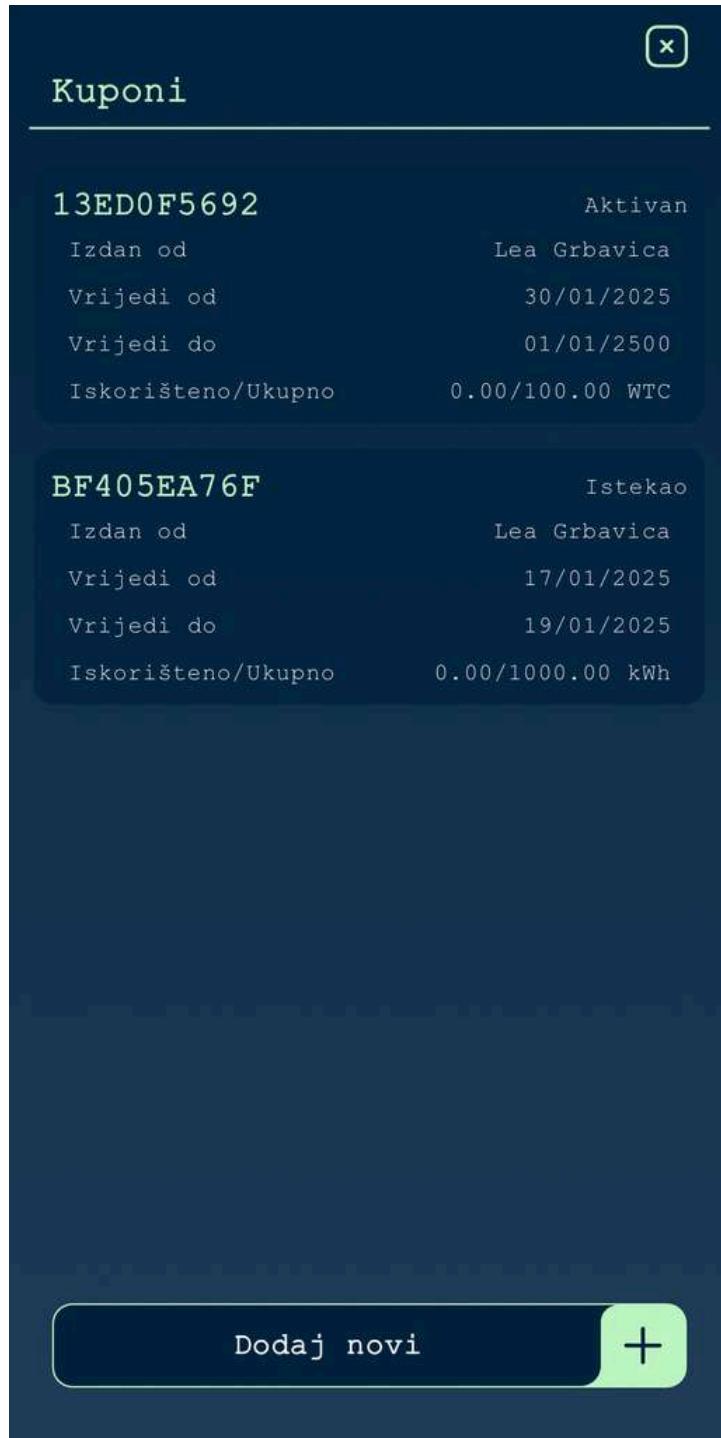
Odabirom tipke "Novi unos" otvorit će Vam se prozor unutar kojeg odabirete period i vrijednost na koju želite izdati kupon te uređaj za koji ga izdajete.

The screenshot shows the "Novi unos" (New entry) dialog box overlaid on the SparkShare uređaji page. The dialog has fields: Može se aktivirati do (27.03.2025), Valjanci: (Vrijedi od-do), Vrijedi do (27.03.2025), Tip potrošnje (kWh), and Vrijednost potrošnja (0). Below these are sections for Uređaj: (Naziv: 048C0471) and a checkbox for Naziv. At the bottom are buttons Snimi (Save) and Odustani (Cancel).

Nakon što unesete potrebne podatke i odaberete "Snimi" kupon je moguće poslati na email ili SMS-om te ispisati.

The screenshot shows the SparkShare uređaji (Devices) page. At the top, there is a navigation bar with links for Home, SparkShare box, Promet računa, Prodaj WTO, Izdane fakture (with a red notification badge), Prijavi problem, Partner, Profil, and Odjava. The main content area is titled "SparkShare uređaji" and shows a table of devices. A modal dialog box is open in the center, titled "Novi unos" (New entry). It contains fields for "Može se aktivirati do" (Valid until) set to "27.08.2015", "Vrijednost" (Value) set to "Vrijedi od-do", "Vrijedi od" (Valid from) set to "28.05.2015", and "Vrijedi do" (Valid until) set to "27.06.2015". Below the table, another modal dialog box titled "Slanje kupона" (Send coupon) asks "Želite li poslati kupon ili ispisati?" (Do you want to send the coupon or print it?). It has four buttons: "Email", "SMS", "Ispis" (Print), and "Oduzeti" (Delete). At the bottom of the page, there are "Snimi" (Save) and "Odustani" (Cancel) buttons.

Potrebno je da osoba kojoj šaljete kupon ima SparkShare mobilnu aplikaciju. Primit će obavijest o dobitku kupona na email/SMS-om, ovisno kako ste odabrali te će joj kupon biti vidljiv i aktivan u mobilnoj aplikaciji po opcijom “Kuponi”.



Ukoliko ispišete kupon. Njegov ispis bit će na predlošku na kojemu su opisani koraci aktivacije i korištenja kupona.



# MAPA

Na mapi su prikazani svi Vaši aktivirani uređaji koji imaju prikazanu lokaciju.

Moguć je prikaz "Mapa" i "Satelit".

Vaš IP: 213.191.153.153 | Korisnik: 00385997334594! [Odjava](#) [O nama...](#)

Jezik: HRV

Home

SparkShare box

Promet racuna

Izdane fakture

Prijaviti problem

Partner

Profil

Prenosimo

Odjava

SparkShare uređaji

Odeberite uređaj: 048C6471 -

Pedoci HeartBit Trgn. punjenje DNS akcije Punjenja EVSE Int. mjerjenja Kuponi Mapa

Map Satellite

Bistro "Kod Varge" Cingi Linci Čardia

Drava

Tvrdavica

Pješački most (Most mladosti)

Podravlje

ZeLENO POLJE

DONJI GRAD

NOVI GRAD

Party house Ranch Osijek

Kaufland

Paver | Osijek

Zoo vrt Osijek

Konkatedrala sv. Petra i Pavla

Emmezeta

Portanova Osijek

JYSK Avenue Mall, Osijek

INDUSTRIJSKA ĆETVRT

GORNJI GRAD

Osijek

TVRDA

Stjepenata ul.

Ulica Matinske Bivali

Vukovarska cesta

Temeljska cesta

Ulica Svetog Lesnika Segedina Mandića

Briješće

Livana

Google

v1.41.1.0 © 2025 SparkShare d.o.o.

# PROMET RAČUNA

U izborniku promet računa možete pregledati, izvesti u XML, Excel i ispisati promet Vašeg računa u WTC-ovima. U slučaju da imate više računa po kojima ste opunomoćeni u padajućem izborniku možete odabrati željeni račun za pregled. Raspoloživo stanje prikazuje koji je saldo Vašeg računa. Period pregleda transakcija možete odabrati pritiskom na datum u poljima Od datuma, Do datuma.

U slučaju da želite izvoz podataka, aplikacija nudi izvoz u Excel formatu.

Vaš IP: 213.191.153.153 | Korisnik: 00385997334594! [Odjava](#) [O nama...](#)

### Promet računa

Odaberite račun: 3210000264 [Lea Grbavica] - Račun za WTC

Raspoloživo stanje: 5,10 WTC

Od datuma: 01.01.2024 Do datuma: 03.12.2024 [Osveži](#) [Excel](#)

Saldo WTC	Iznos WTC	Iznos kW	DevUID	Opis	Vrijeme	ID	Tran ID
5,10	0,10	- 0,10	048C6471	Osijek, Stanka Vraza 7	30.10.2024 12:55:03	41001436	41001435
5,00	5,00			SparkShare d.o.o. @ Welcome to SparkShare	21.10.2024 14:04:17	41001352	41001351

# IZDANE FAKTURE

U izborniku Izdane fakture možete pregledati sve fakture koje su izdane i koje se odnose na vaš račun. Ovaj prikaz omogućuje vam detaljan uvid u sve transakcije i naplate povezane s vašim korisničkim računom, uključujući datum izdavanja, iznos i ostale relevantne podatke o fakturama.

# PRIJAVA PROBLEMA

U ovom izborniku možete prijaviti problem s Vašim uređajem. Naš tim stručnjaka zaprimit će Vašu prijavu i obraditi je u najkraćem mogućem roku, a odgovor možete očekivati putem e-maila. Molimo Vas da u naslov prijave sažeto navedete problem, dok u opisu pružite što detaljnije informacije o situaciji. Kako bismo osigurali što preciznije rješavanje problema, također imate mogućnost učitavanja screenshot fotografije problema u aplikaciji ili fotografije uređaja. Detaljna dijagnostika dostupna putem SS Portala omogućuje korištenje specifičnih podataka prilikom prijave.

The screenshot shows the SparkShare portal interface. On the left is a green sidebar menu with options: Jezik (HRV), Home, SparkShare box, Promet računa, Izdane fakture, Prijava problema (highlighted in green), Profil, and Odjave. At the bottom of the sidebar is the text v1.33.0.3 © 2022 SparkShare d.o.o. The main content area has a header 'Prijava problema'. It contains fields for 'Naslov:' (Title) and 'Opis:' (Description), both with placeholder text. Below these is a file input field labeled 'Slikac:' with 'Choose File' and 'no file selected' text. A green 'Prijav' (Submit) button is at the bottom. The top right corner shows 'Vaš IP: 88.207.127.55 | Korisnik: 00385916119758 | Odjava | O nama...'.

# PROFIL

U izborniku Profil korisnicima je omogućeno pregledavanje i izmjena osobnih podataka. Također, dostupan je pregled osoba vezanih uz Vaš korisnički račun. Ako želite promijeniti broj mobitela, potrebno je kontaktirati našu podršku putem e-maila na adresu info@sparkshare.eu.

Vaš IP: 213.191.153.153 | Korisnik: 00385997534294 | [Odjava](#) | [O nama...](#)

Mobilni broj Vozane osobe Profiler

Ime: Lea Prezime: Orbanica

Adresa: Adresa Kućni broj: Kućni broj

Poboljšani broj: Poboljšani broj Mjesto: Mjesto

Odjava: HRVATSKA

E-mail: info@sparkshare.eu

Mobilni broj se mijenja, molimo je užeti na [sparkshare.hr](#) 031603997354294

[Snimi](#)

# KORIŠTENJE SUSTAVA I SIGURNOSNE MJERE

Sparkshare d.o.o. onemogućit će bilo kakvo neovlašteno korištenje aplikacije blokiranjem IP adrese korisnika. Tvrтka zadržava pravo uskraćivanja pristupa aplikaciji korisnicima za koje postoji opravdana sumnja da je koriste na neovlašten način. Sve aktivnosti unutar aplikacije bilježe se u dnevnik akcija, što omogućuje praćenje svake radnje u sustavu. Kako bi se spriječilo neovlašteno korištenje, Sparkshare d.o.o. zadržava pravo u svakom trenutku provjeriti sve zabilježene radnje unutar aplikacije.

## ZAŠTITA OSOBNIH PODATAKA

Prikupljeni osobni podatci koristit će se prema Politici Zaštite Osobnih Podataka tvrtke Sparkshare d.o.o.



# USER MANUAL FOR **SPARKSHAREBOXEV** AND **CUBE**

# **INSTALLATION MANUAL FOR**



## **BOXEV**

# CONTENT

1. Warnings and safety notes	109
• General safety warning for BOXEV	109
• Important safety notes before proceeding	112
2. Self-check and recovery	114
3. Load distribution	114
4. Minimum requirements	115
5. Required tools	116
6. What do you get in the box?	118
7. Installation steps	120
8. Electrical wiring diagram	123
9. BOXEV operation modes	124
10. LED indication description	127
11. Troubleshooting	130
12. Maintenance	131

# WARNINGS AND SAFETY NOTES

## GENERAL SAFETY WARNINGS FOR BOXEV

**Read All Instructions Before Use:** Ensure that you fully understand all installation and usage instructions for the BOXEV before installing and using it.

**Power Circuit Protection:** The BOXEV power circuit must be adequately grounded. It must be protected by an appropriate residual current protection device (RCD, type B, 30mA) and a fuse rated according to the cross-section of the power cable and the set maximum current of the BOXEV (recommended B characteristic).

**Consider Grounding:** The BOXEV must be grounded via a permanent grounding system or grounding conductor. The power circuit must be protected with an appropriate RCCB (Residual Current Circuit Breaker) and a fuse/MCB (Miniature Circuit Breaker). The RCCB must be type B with a rated current of 30mA.

**Hazardous Locations:** Do not install or use the BOXEV near flammable, explosive, or aggressive materials, chemicals, or vapors.

**Turn Off Power Before Servicing:** Ensure the BOXEV power circuit is de-energized (e.g., by switching off the circuit breaker) before installation, cleaning, or servicing to avoid the risk of electric shock.

**Operating Parameters:** Use the BOXEV only within the specified operating voltage, current, and environmental conditions.

**Exposure to Liquids:** Never spray water or any other liquid directly onto the BOXEV. Also, do not spray liquid onto the charging handle or immerse it in liquid. Always securely place the charging handle on the charger housing and cover it with a rubber cap to prevent unnecessary exposure to moisture or contamination.

**Stop Using if Damaged:** Stop using the BOXEV if it shows any signs of damage, such as cracks, wear, or malfunction.

**Do Not Attempt Repairs:** Do not disassemble, repair, modify, or change the BOXEV charger before thoroughly reviewing the user manual. If repair or servicing of the BOXEV is needed, contact a certified Sparkshare partner. If you decide to repair or service the BOXEV yourself, consult the manufacturer for any uncertainties regarding repairs or servicing.

**Handle with Care:** When transporting the BOXEV, avoid exposing it to strong impacts, forces, or stresses (such as twisting, pulling, or stepping on cables) to prevent damage.

**Foreign Objects:** Do not insert foreign objects into any part of the BOXEV.

**Interference with Medical Devices:** The operation of the BOXEV may interfere with the functionality of medical or implanted electronic devices such as pacemakers. Before using the BOXEV charger, consult with the manufacturer of your medical device to ensure safe usage.

**Improper Installation:** Improper installation and testing of the BOXEV may potentially damage the vehicle's battery or the charger itself.

**Avoid Extreme Temperatures:** The BOXEV should not be used outside the temperature range of -30°C to +50°C.

**Avoid Direct Sunlight and Extreme Weather Conditions:** Avoid exposing the BOXEV to direct heavy rain, snow, or other extreme weather conditions.

**Cable Protection:** Ensure that the BOXEV cable is positioned in a way that prevents it from being stepped on, tripped over, or otherwise damaged or exposed to strain.

**Cleaning:** Do not use solvents to clean any part of the BOXEV. Occasionally wipe the exterior of the BOXEV, the charging cable, and the charging handle with a clean, dry cloth to remove accumulated dirt and dust.

**Canopy:** If the BOXEV is placed outdoors, it is recommended to install a canopy above it to protect it from direct exposure to rain, snow, ice, and sun. This ensures the long-lasting and reliable operation of the device in all weather conditions.



1. **Warning:** Use only a 230/400 V, 50Hz power supply as the power source for the BOXEV.
2. **Warning:** Improper installation and use of the BOXEV may potentially damage the vehicle's battery and/or the BOXEV itself. Any resulting damage may not be covered by the warranty.
3. **Warning:** Do not use the BOXEV outside the temperature range of -30°C to +50°C.
4. **Warning:** Ensure proper ventilation and keep the BOXEV free from obstacles or external factors that may cause overheating or reduced performance.

## **IMPORTANT SAFETY NOTES BEFORE PROCEEDING**

Be cautious during installation to avoid damaging any components or circuits within the BOXEV.

Ensure that the incoming power supply is safely turned off before connecting the BOXEV.

Pay special attention to ensuring the PE (protective grounding) terminal is properly connected and that the protective grounding of the power circuit is correctly implemented.

Do not leave parts such as screws, seals, washers, or other metal objects inside the BOXEV.

It is strictly prohibited for minors or persons with limited abilities to approach the BOXEV to prevent potential injuries.

It is strictly forbidden to use the BOXEV if the charging cables are damaged, cracked, worn, broken, or if the copper wires are exposed. If you notice any damage, please contact us and order a replacement part via the SparkShare webshop as soon as possible.

We recommend that the replacement be carried out by qualified personnel. However, if you choose to repair your device on your own, it is essential to thoroughly familiarize yourself with these instructions, particularly the chapters: Warnings and Safety Notes, What's in the Box, Installation Steps, and Electronic Wiring Diagram.

It is recommended to conduct routine safety inspections of the BOXEV charger at least once a week.

The maximum power rating for the BOXEV is 22 kW or 32A at 400V AC three-phase power.

DESCRIPTION	SPECIFICATION
Voltage	230/400 V
Current	32 A (per phase)
Frequency	50 Hz
Cable Length	6 m
Dimensions	38x38x14
Weight	5 kg
Operating temperature	-25 -50 C
Storage temperature	-40 -75 C
Agency Approvals	CE

# **SELF-CHECK AND RECOVERY**

Manual testing and resetting is not required.

If a residual current fault occurs, the external RCD (FID) switch or fuse will clear the fault. Once the fault is cleared and the power is restored, the BOXEV will turn on and restart. If the power interruption occurs during charging, the BOXEV will resume charging once power is restored.

## **LOAD DISTRIBUTION**

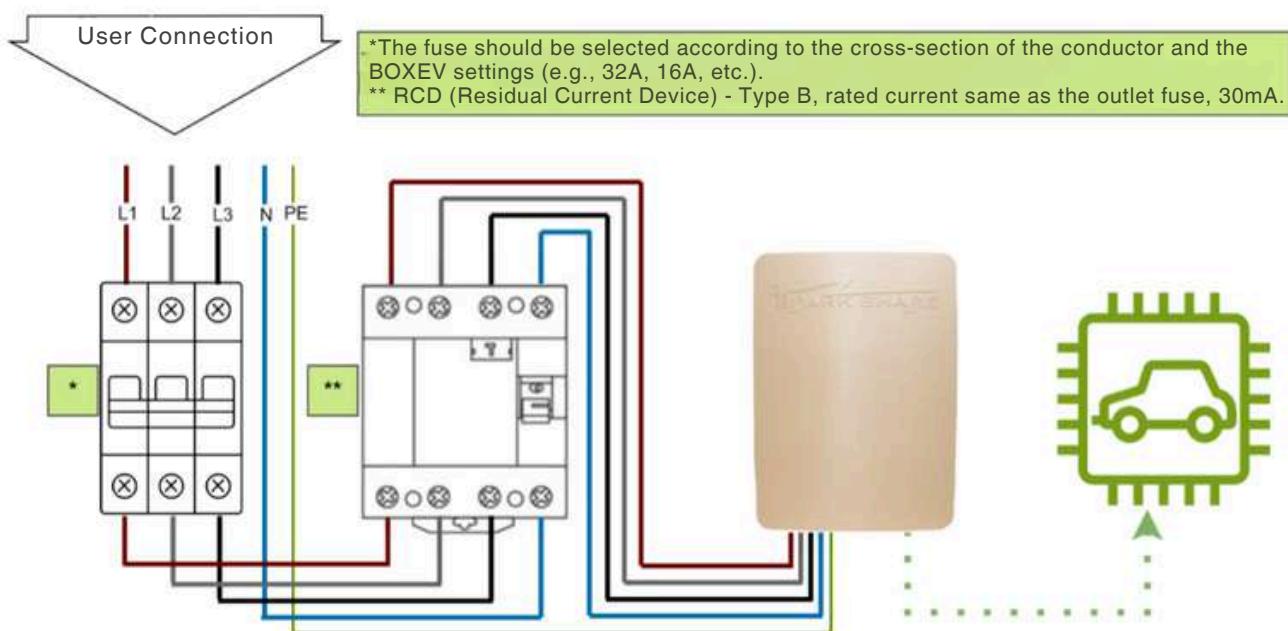
The BOXEV allows multiple chargers to be connected to a single circuit, providing vehicle owners with the assurance that they can charge multiple vehicles simultaneously without overloading the circuit. Multiple BOXEV chargers communicate with each other to share the load between vehicles, ensuring that the load never exceeds the allowable circuit voltage.

# MINIMUM REQUIREMENTS

The installation of the BOXEV requires that you:

1. Calculate the existing electrical load to determine the maximum operating current of the outlet you want to power the BOXEV from.
2. Ensure minimal voltage drop by placing the BOXEV as close as possible to the distribution box.
3. Obtain all necessary permits from the relevant local authorities and confirm that an inspection after the installation is scheduled by a qualified electrician.
4. Use only copper conductors.
5. Use conductors sized according to local electrical installation regulations. The selected cable must be capable of handling continuous loads up to 32A.
6. Use protective devices. The protection device for the outlet must be selected to include appropriate grounding protection (RCD) and protection from overload/short circuit (fuse) according to the chosen electrical load.

Note: Consult with an electrician to ensure that the installation meets local regulations.

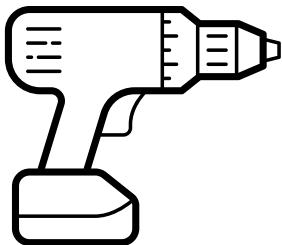


# REQUIRED TOOLS

To install BOXEV the following tools are required:

## Mandatory:

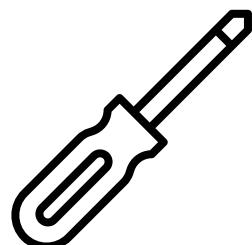
Electric drill



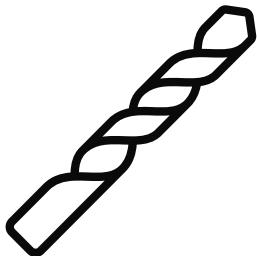
Wire cutting  
and stripping  
pliers



Phillips Screwdriver



8 mm drill bit



3x8mm screw +  
plastic wall plug



10 cents

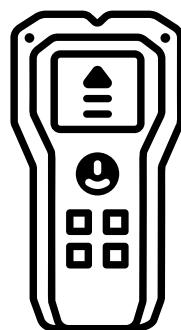


**Optional:**

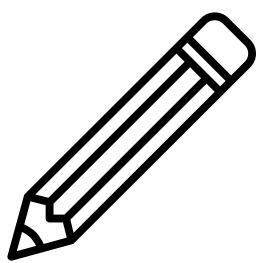
Measuring tape



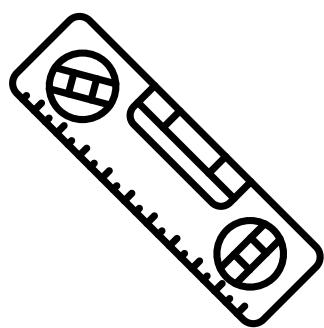
Cable detector



Pencil



Water level



# WHAT DO YOU GET IN THE BOX?

Item	Description	Quantity
	Installation pamphlet	1
	Quick guide	1
	Back BOX	1



Decorative  
cover

1



Charging cable  
Type 2

1



Plastic pin

3

# INSTALLATION STEPS

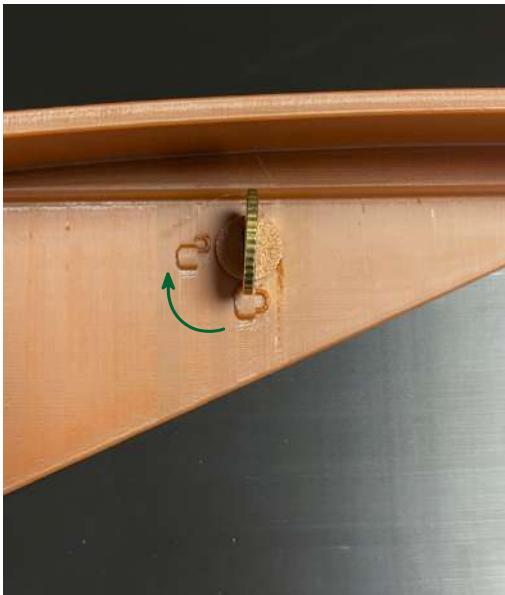
Warning: After completing the installation to the desired position, lower/turn off the appropriate fuse in the main circuit, TURN OFF THE POWER, AND CONFIRM THAT THE CIRCUIT IS DE-ENERGIZED BEFORE PROCEEDING.

1. Open the box (details below) and take out the installation brochure, which marks the drilling holes and mounting points for the box.
2. To ensure proper placement of the box, it is recommended to use a spirit level.
3. Mark the drilling points on the wall.
4. It is recommended to use a cable detector to check for electrical wiring, plumbing pipes, or other obstacles behind the wall.
5. Drill the holes with the appropriate drill bit, the recommended size is 8 mm.
6. Insert the plastic wall plugs into the drilled holes.
7. Take the BOXEV device.
8. Unscrew the two plastic rivets from the sides of the device to release the decorative cover.
9. Carefully separate the decorative cover and disconnect the LED lights in the center of the cover. Unplug the LED control cable.
10. Unscrew the plastic rivet securing the bottom cover at the base of the device.
11. Carefully remove the bottom cover by pulling it downwards.
12. Position the box on the wall, aligning it with the previously drilled holes using the installation brochure.
13. Secure the box to the wall with screws.
14. Thread the power cable through the hole at the bottom of the box.
15. Connect the wires from the power cable to the appropriate terminals: L1, L2, L3, N, PE. (Refer to the section on the Electrical Wiring Diagram.)
16. Reattach the bottom cover by pulling it upwards.
17. Re-secure the plastic rivet to hold the bottom cover in place.

18. Reconnect the LED diode connector (pay attention to the wire colors).
19. Reattach the decorative cover to the box.
20. Secure the two plastic rivets on the sides of the device to hold the cover in place.
21. Turn on the device's power by switching the previously turned-off fuse back on.

## THE PROCEDURE FOR OPENING THE BOX

1.



Insert a 10-cent coin into the slot on the side, then turn it in the "lock-unlock" direction, as shown in the photo. After unlocking the plastic pin, carefully remove it from the BOXEV.

Repeat the process on the other side of the BOXEV.

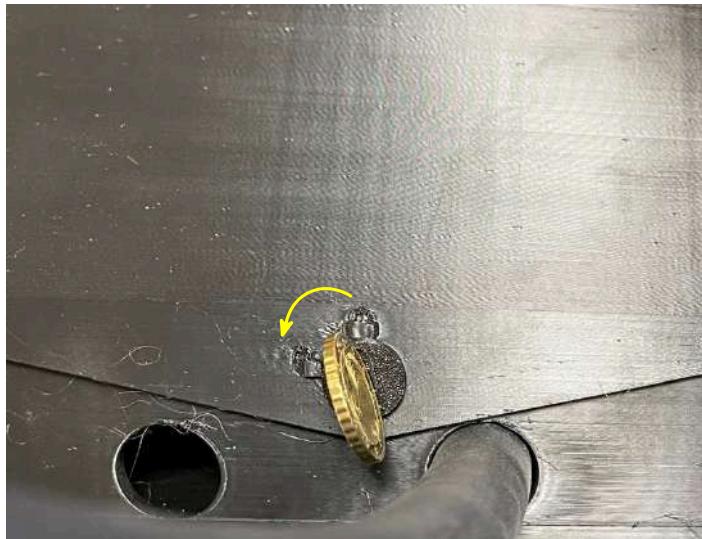
2.



Once both plastic pins are removed, carefully pull the decorative cover towards you to remove it.

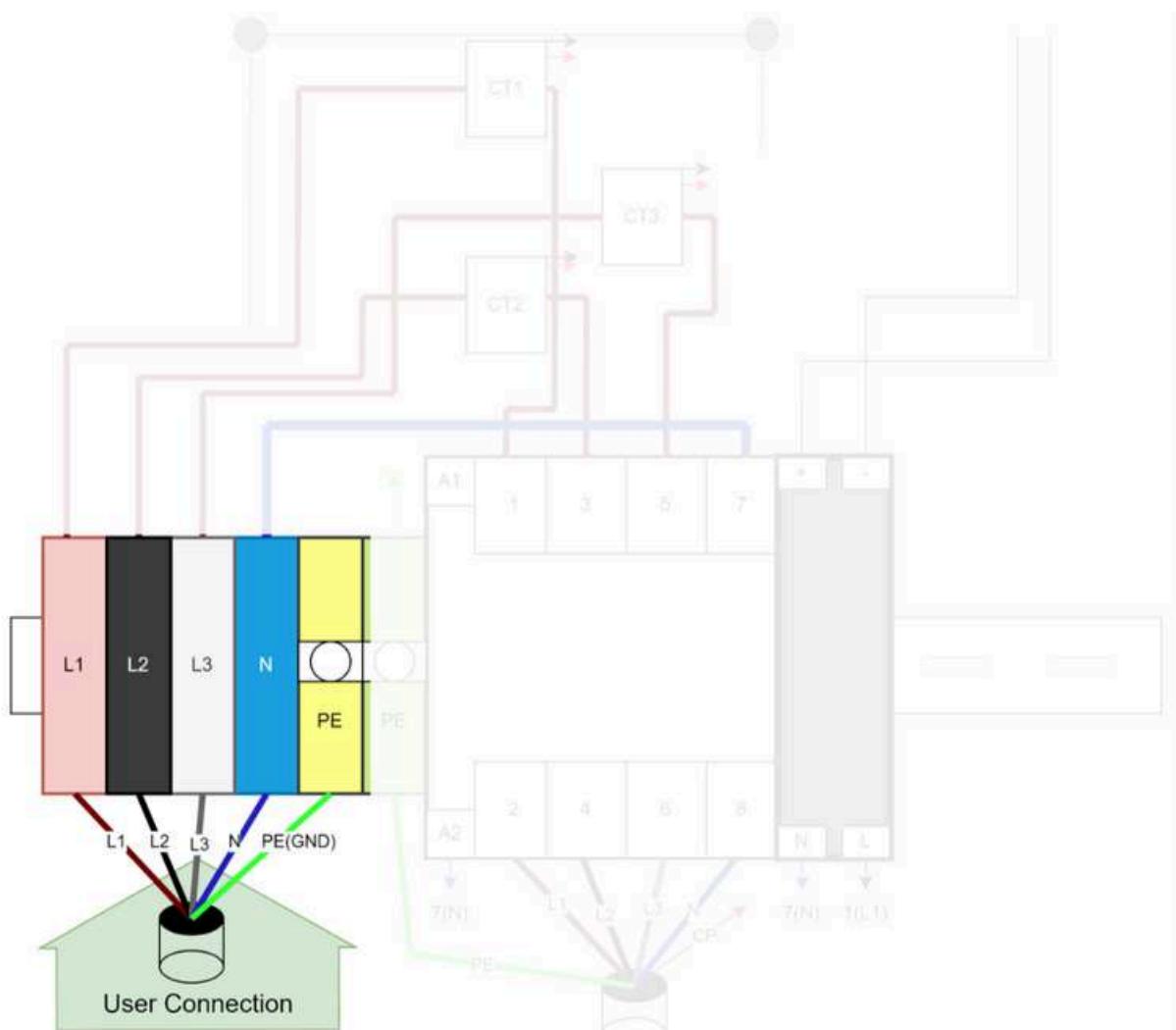
Detach the decorative cover from the bottom part by gently pulling at the marked location in the photo (disconnecting the LED diode connector).

**3.**



On the underside of the inner BOXEV box, there is a plastic pin. Insert a 10-cent coin and turn it in the direction shown in the photo. After unlocking, carefully remove the plastic pin and pull the unlocked part of the inner box towards you.

# ELECTRICAL WIRING DIAGRAM (3 PHASE)



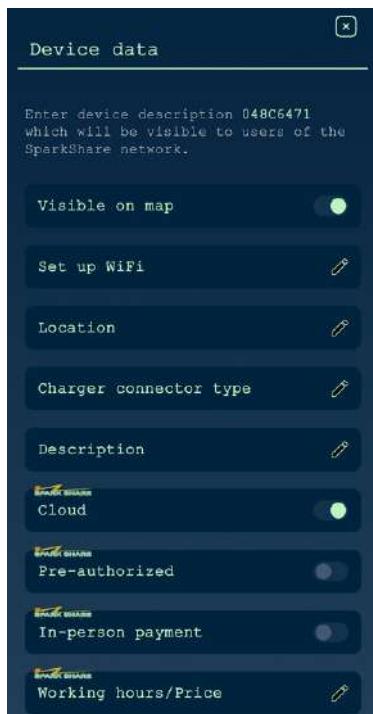
# OPERATION SCENARIOS FOR BOXEV

**! Charging current of the BOXEV is limited to 6A until the device is connected via the SparkShare app.**

## SCENARIO 1: USING ALL THE FEATURES OF THE SPARKSHARE NETWORK

If you want to use all the functionalities provided by the SparkShare network, including making the charger publicly available in the mobile app, monitoring and controlling via the mobile app and/or SparkShare portal, sharing electricity, and other features, you need to:

1. Install the BOXEV and turn on the device.
2. Download the SparkShare mobile app by scanning the QR code found in the installation brochure.
3. Create an account and connect to the device via Bluetooth.
4. Set the device's preferences according to your needs.
5. Download the QR code for your device from the SparkShare Portal (page 145 of this User Manual).
6. Place the QR code in a visible location so that users who want to use the charger can start charging by scanning the QR code.



Functions that need to be enabled:  
"Visible on Map"  
"Cloud"

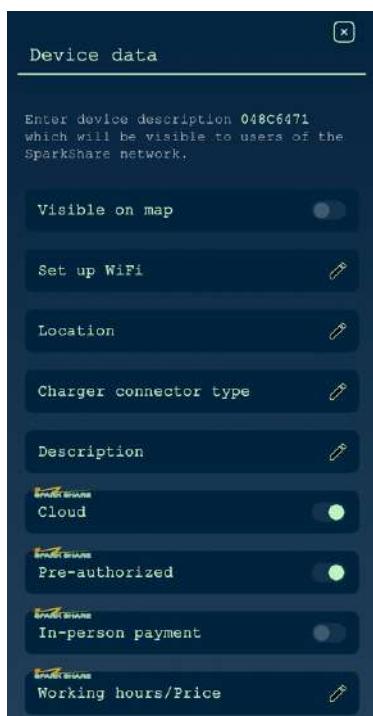
## SCENARIO 2: PRIVATE CHARGER WITH MONITORING AND CONTROL

If you want to have monitoring and control over the charger via the mobile app and/or portal, but do not want it to be publicly accessible, you need to:

1. Install the BOXEV charger and turn on the device.
2. Download the SparkShare mobile app by scanning the QR code found in the installation brochure.
3. Create an account and connect to the device via Bluetooth.
4. Set the device's preferences according to your needs and select the "Pre-authorized" option in the settings.

In this case, there is no need to scan the QR code when starting the charging process. As soon as the charger is connected to the vehicle, charging will start automatically.

Note: When using this option, no WTC tokens will be exchanged.



Functions that need to be enabled:  
"Cloud"  
"Pre-authorized"

## SCENARIO 3: BOXEV WITHOUT MONITORING AND CONTROL

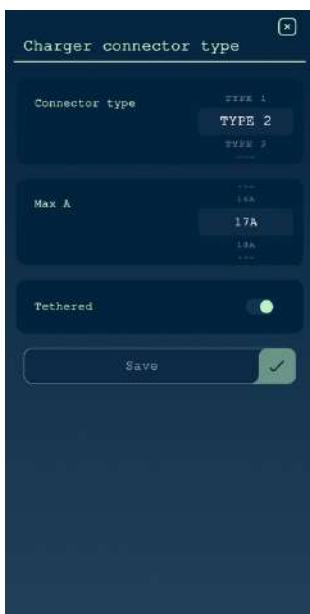
If you do not want to have control and monitoring over your BOXEV device or cannot ensure a stable internet connection, it can operate without smart functionalities. In this case:

- Charging starts automatically once the vehicle is connected.
- No monitoring or control is available via the mobile app and/or portal.
- You will not have access to energy consumption data or other charging parameters.
- BOXEV in this scenario serves purely as a simple "box" for charging the electric vehicle.

To enable this mode of operation, you need to:

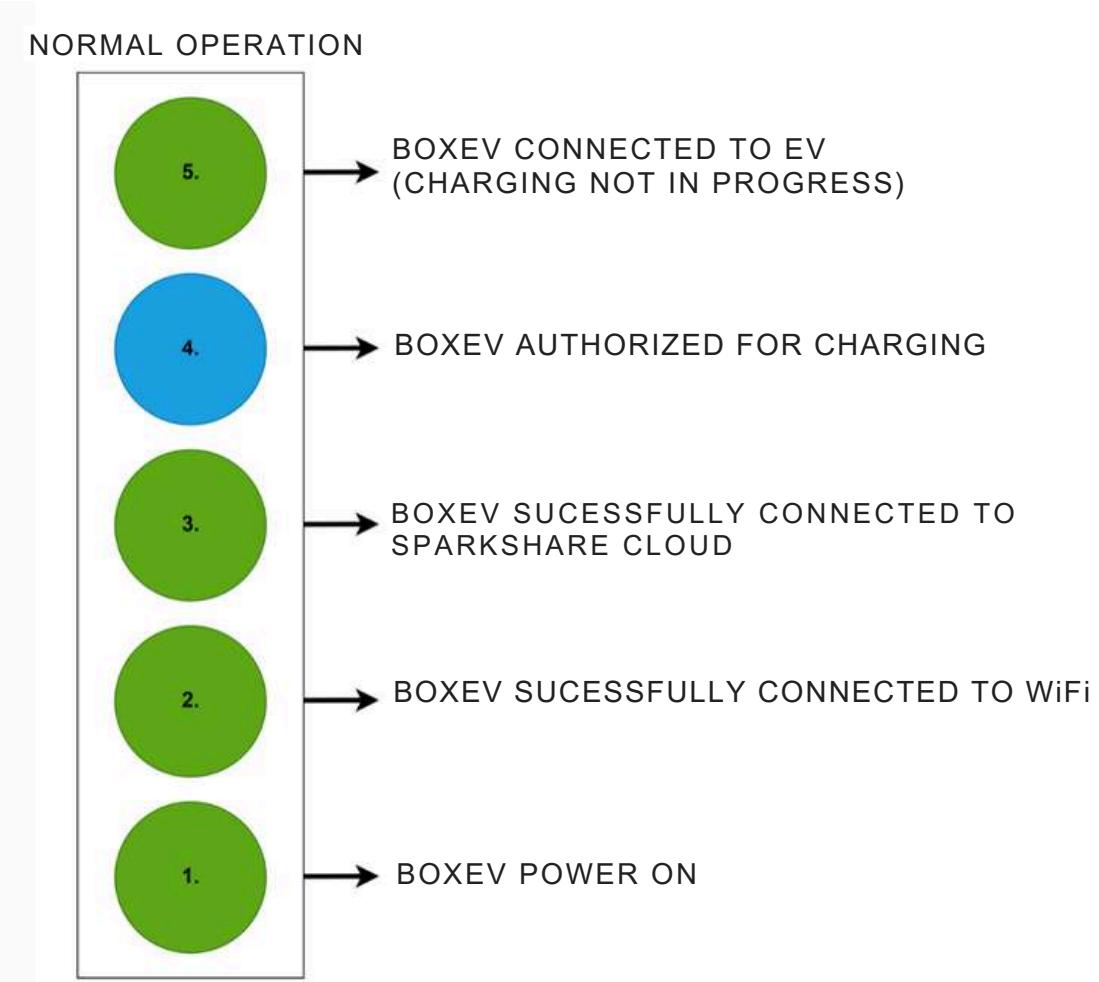
1. Install the BOXEV charger and turn on the device.
2. Download the SparkShare mobile app by scanning the QR code found in the installation brochure.
3. Create an account and connect to the device via Bluetooth.
4. Set up the device according to your preferences.
5. Remove the device from your account (pages 129-133 of this User Manual).

By doing this, all previously set parameters will remain saved, but the device will start charging when the vehicle is plugged in.



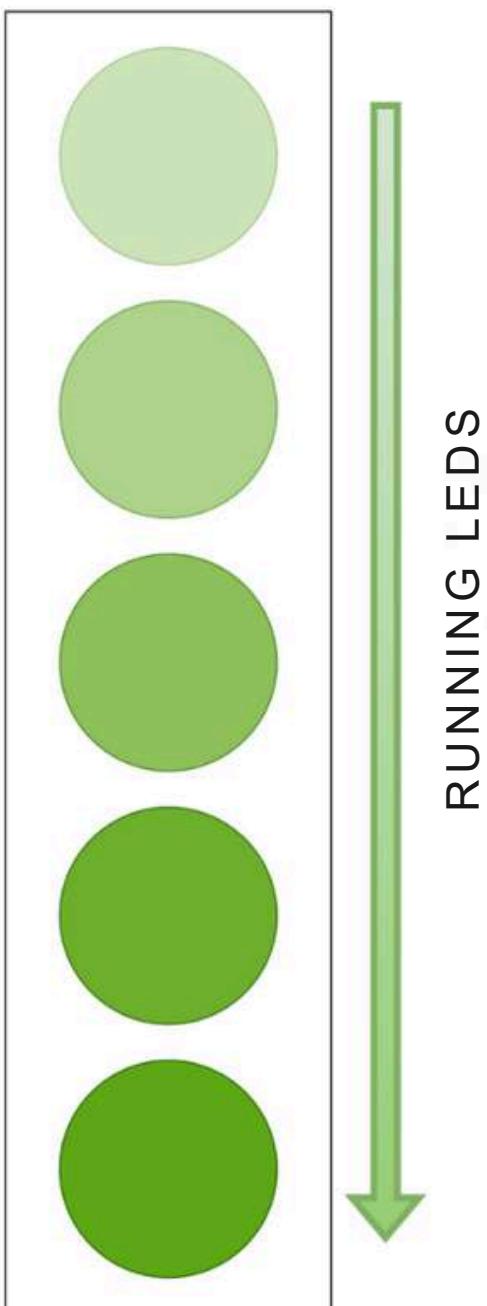
Functions that need to be enabled:  
None of the previously mentioned, only under "Charger Connector Type" set the maximum current.

# LED INDICATION DESCRIPTON



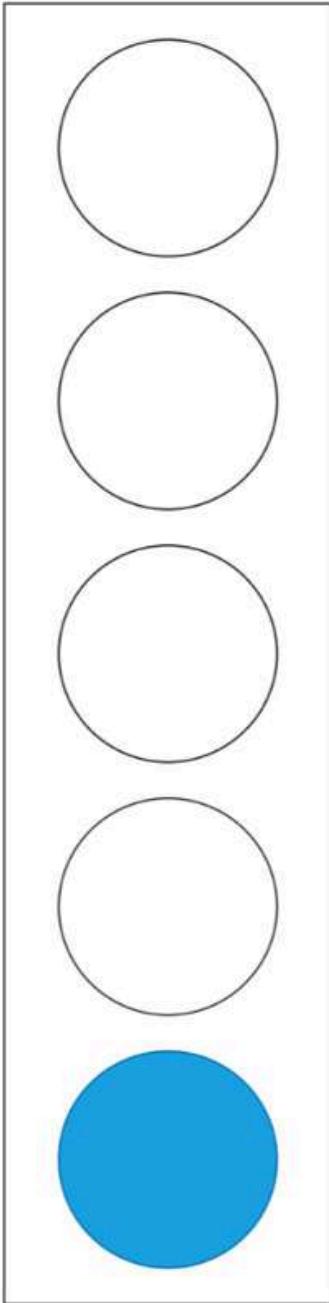
In the case of a software error during operation, LED number 4 will light up **RED**. After sending the data, LED number 4 will blink **YELLOW** for a few seconds before the device restarts.

(CHARGING IN PROGRESS)



When the EV is charging, the LEDs light up one by one from 5 to 1 to simulate the flow of current towards the car (GREEN).

## OTA UPDATE



During OTA update, LED no. 1 turns **BLUE**. If the update is successful, LED no. 1 briefly turns **GREEN** and then **BLUE** again, followed by a reboot (restart).

If there is an error during the OTA update, LED no. 1 will alternate between **BLUE** and **RED**. It will return to **GREEN** as the device continues to operate.

# TROUBLESHOOTING

FAULT DESCRIPTION	HOW WE SUGGEST YOU FIX IT
BOXEV turned off	Check the power circuit. If there has been no power outage, check the fuse. If the fuses are in the closed position, open the BOXEV and check for voltage at the input terminals using a voltmeter, multimeter, electrician's screwdriver, voltage tester, or another appropriate tool.
BOXEV too hot	The temperature alarm will be displayed in the mobile application. BOXEV will become operational once its temperature returns to a safe level.
Overvoltage/Undervoltage	The notification of high/low voltage will be displayed in the mobile application. BOXEV will not allow the charging process to begin until the power supply returns to the allowed voltage range.
Issues during the initial installation	It is necessary to disconnect SparkShareBoxEV from the mobile application via the mobile app and then go through the device activation process again.

# MAINTENANCE

To ensure the long-term stable functionality of BOXEV, it should be regularly maintained (recommended at least once a month) according to environmental conditions.

The equipment should be maintained by qualified personnel.

1. Verify that the equipment is properly grounded and secure.
2. Check for potential safety hazards in the vicinity of BOXEV.
3. Ensure that there are no sources of high temperatures, corrosion, or flammable and explosive substances near BOXEV.
4. Inspect the input terminals of BOXEV to ensure a proper connection with the incoming cable and check for any irregularities.

Please adhere to the safety instructions; otherwise, there may be **a risk to life, injury, and damage to the device**, for which SparkShare or the supplier does not take responsibility.

Please sort and recycle your waste according to local recycling guidelines.

# INSTALLATION MANUAL FOR



## CUBE

# CONTENT

1. Warnings and safety notes	134
• General safety warnings for CUBE	134
• Important safety notes before proceeding	137
2. Self-check and recovery	139
3. Load distribution	139
4. Minimum requirements	140
5. Required tools	141
6. What's in the Box?	143
7. Installation Steps	145
8. Wiring diagram	147
9. CUBE operating scenarios	148
10. LED indicator description	151
11. Troubleshooting	153
12. Maintenance	154

# WARNINGS AND SAFETY NOTES

## GENERAL SAFETY WARNINGS FOR CUBE

**Read all instructions before use:** Make sure you fully understand all installation and usage instructions for the CUBE before installing and using it.

**Power circuit protection:** The CUBE's power circuit must be properly grounded. It must be protected by an appropriate residual current device (RCD, type B, 30mA) and a fuse rated according to the cross-section of the power cable and the CUBE's maximum current (a type B circuit breaker is recommended).

**Consider grounding:** The CUBE must be grounded through a permanent grounding system or a grounding conductor. The CUBE's power circuit must be protected by an appropriate RCCB (Residual Current Circuit Breaker) and a fuse/MCB (Miniature Circuit Breaker). The RCCB must be type B with a rated current of 30 mA.

**Hazardous locations:** Do not install or use the CUBE near flammable, explosive, or corrosive materials, chemicals, or vapors.

**Disconnect power before servicing:** Ensure that the CUBE's power circuit is de-energized (e.g., by switching off the circuit breaker in the power supply line) before installation, cleaning, or servicing the CUBE to avoid the risk of electric shock.

**Operating parameters:** Use the CUBE only within the specified parameters for operating voltage, current, and environmental conditions.

**Exposure to liquids:** Never spray water or any other liquid directly onto the CUBE. Also, do not spray liquid onto the charging handle or immerse it in any liquid. Always place the charging handle securely into the charger housing and cover it with the rubber cap to prevent unnecessary exposure to moisture or contamination.

**Stop using if damaged:** Stop using the CUBE if it shows any signs of damage, such as cracks, wear, or malfunction.

**Ne pokušavajte popravke:** Nemojte rastavlјati, popravlјati, mijenjati ili modificirati punjač CUBE-a prije nego ste se detaljno upoznali s korisničkim uputama CUBE-a. U slučaju potrebe za popravkom ili servisom CUBE-a obratite se certificiranom Sparkshare partneru. Ako se ipak odlučite samostalno popravlјati/servisirati CUBE, za sve nejasnoće oko popravaka ili servisa CUBE-a obratite se proizvođaču.

**Do not attempt repairs:** Do not disassemble, repair, alter, or modify the CUBE charger unless you have thoroughly read the CUBE user manual. If repair or servicing is needed, contact a certified Sparkshare partner. If you choose to repair or service the CUBE yourself, direct any questions or uncertainties regarding repairs or servicing to the manufacturer.

**Foreign objects:** Do not insert foreign objects into any part of the CUBE.

**Interference with medical devices:** The operation of the CUBE may interfere with the functionality of medical or implanted electronic devices such as pacemakers. Before using the CUBE charger, consult the manufacturer of your medical device to ensure safe use.

**Incorrect installation:** Improper installation and testing of the CUBE may potentially damage the vehicle's battery or the charger itself.

**Avoid extreme temperatures:** The CUBE must not be used outside the temperature range of -30°C to +50°C.

**Avoid direct sunlight and extreme weather conditions:** Avoid exposing the CUBE to heavy rain, snow, or other extreme weather conditions.

**Cable Protection:** Ensure the CUBE cable is positioned to prevent stepping on it, tripping over it, or any other form of damage or strain.

**Cleaning:** Do not use solvents to clean any part of the CUBE. Occasionally wipe the exterior of the CUBE, the charging cable, and the charging handle with a clean, dry cloth to remove accumulated dirt and dust.

**Canopy:** If the CUBE is installed outdoors, it is recommended to install a canopy above it to protect it from direct exposure to rain, snow, ice, and sunlight. This ensures long-lasting and reliable operation of the device in all weather conditions.



1. **Warning:** Use only 230/400 V, 50 Hz as the power source for the CUBE.
2. **Warning:** Improper installation and use of the CUBE may potentially damage the vehicle's battery and/or the CUBE itself. Any resulting damage may not be covered by the warranty.
3. **Warning:** Do not use the CUBE outside the temperature range of -30°C to +50°C.
4. **Warning:** Ensure proper ventilation and keep the CUBE free from obstacles or external factors that may cause overheating or reduced performance.

## **IMPORTANT SAFETY NOTES BEFORE PROCEEDING**

Be careful during installation to avoid damaging any circuits or components inside the CUBE.

Ensure that the incoming power supply is safely disconnected before connecting the CUBE.

Pay special attention that the PE (protective earth) terminal is properly connected and that the grounding of the power circuit is adequately implemented.

Do not leave parts such as screws, seals, washers, or other metal objects inside the CUBE.

It is strictly forbidden for minors or persons with limited abilities to access the CUBE to prevent possible injuries.

It is strictly prohibited to use the CUBE if the charging cables are damaged, cracked, worn, broken, or if copper wires are exposed. If you notice any damage, please contact us and order a replacement part via the [SparkShare webshop](#) as soon as possible.

We recommend that replacements be performed by qualified personnel. If you decide to repair your device yourself, it is important to thoroughly familiarize yourself with these instructions, especially the chapters: Warnings and Safety Notes, What's in the Box, Installation Steps, and Wiring Diagram.

Routine safety inspections of the CUBE charger are recommended at least once a week.

The maximum power output of the CUBE is 22kW or 32A at 400V AC with three-phase current.

DESCRIPTION	SPECIFICATIONS
<b>Voltage</b>	<b>230/400 V</b>
<b>Current</b>	<b>32 A (per phase)</b>
<b>Frequency</b>	<b>50 Hz</b>
<b>Cable length*</b>	<b>6m i 10m</b>
<b>Dimensions</b>	<b>38x38x14</b>
<b>Weight</b>	<b>5 kg</b>
<b>Operating temperature</b>	<b>-25 -50 C</b>
<b>Storage temperature</b>	<b>-40 -75 C</b>
<b>Agency Approvals</b>	<b>CE</b>

\*if the version with a Type 2 cable is selected

# **SELF-CHECK AND RECOVERY**

Manual testing and resetting are not required.

In the event of a ground fault, the external RCD or circuit breaker will clear the fault. Once the fault is resolved and power is restored, the CUBE will power on and restart. If a power outage occurs during charging, the CUBE will automatically resume charging when power is restored.

# **LOAD DISTRIBUTION**

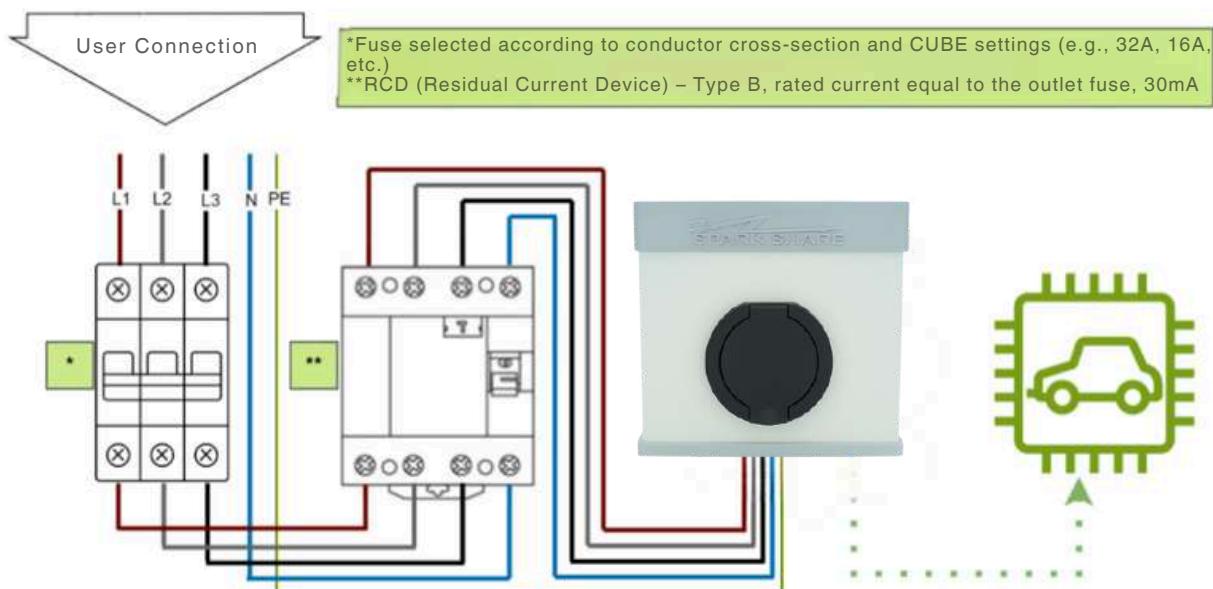
SparkShare Load Management allows users to power multiple SparkShare chargers from the same power circuit by setting the maximum total charging current for all SparkShare chargers on that circuit. This provides vehicle owners with the assurance that they can charge multiple vehicles simultaneously without overloading the circuit. Multiple SparkShare chargers communicate with each other to share the load between vehicles, ensuring that the load never exceeds the allowed circuit capacity.

# MINIMUM REQUIREMENTS

Installation of the CUBE requires that you:

1. Calculate the existing electrical load to determine the maximum operating current of the outlet where you want to install the CUBE.
2. Ensure minimal voltage drop by placing the CUBE as close as possible to the distribution board.
3. Obtain all necessary permits from the relevant local authorities and confirm that an inspection has been conducted by a qualified electrician after installation is complete.
4. Use only copper conductors.
5. Use conductors sized according to local electrical installation regulations. The selected cable must be capable of handling continuous loads up to 32 A.
6. Use protective devices. The outlet protection device must be chosen to include appropriate residual current protection (RCD) and overload/short-circuit protection (fuse) according to the selected electrical load.

Note: Consult a qualified electrician to ensure the installation complies with local regulations.

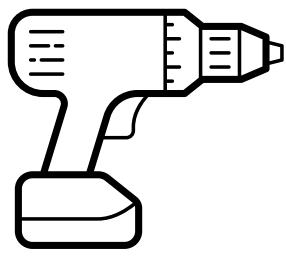


# REQUIRED TOOLS

The following tools are required for the installation of the CUBE:

## Mandatory:

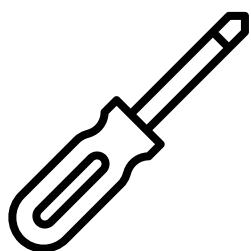
Electric drill



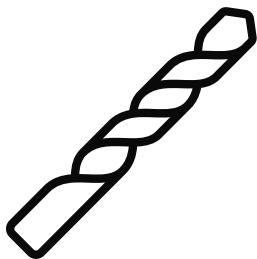
Wire cutters and wire  
strippers



Phillips screwdriver

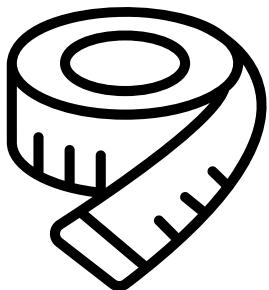


8 mm drill bit

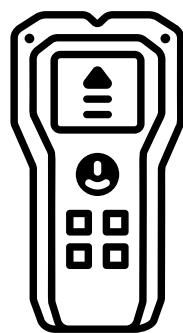


**Optional:**

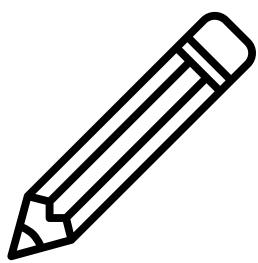
Measuring tape



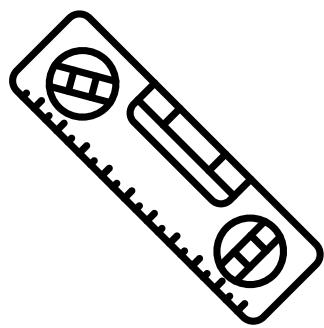
Cable detector



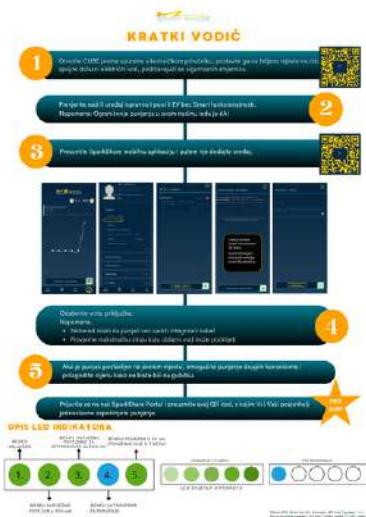
Pencil



Spirit level



# WHAT'S IN THE BOX?

Item	Description	Quantity
	Installation brochure	1
	Quick guide	1
	SparkShare Cube	1
	Plastic pin	3



Rivet tool

1



Wall plugs

3



Screw

1



Mounting hooks

2



Cabel Type 2\*

1

\*if the version with Type 2 cable is selected

# INSTALLATION STEPS

Warning: After positioning the installation at the desired location, switch off the appropriate circuit breaker in the main circuit,  
TURN OFF THE POWER AND CONFIRM THAT THERE IS NO VOLTAGE BEFORE PROCEEDING.

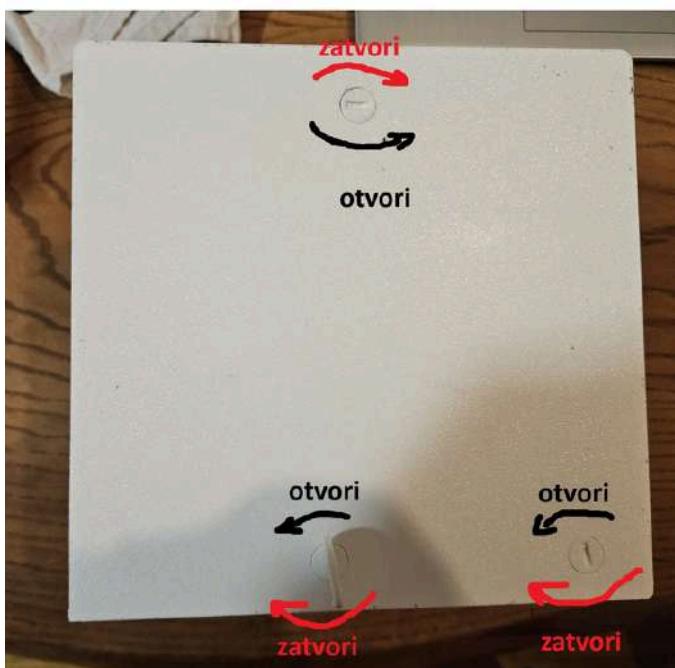
1. Take the installation brochure, which shows the marked drilling holes. *To ensure proper alignment, it is recommended to use a spirit level.*
2. Mark the drilling points on the wall. *It is recommended to use a cable detector to check for electrical wiring, plumbing pipes, or other obstacles behind the wall.*
3. Drill holes using the appropriate drill bit, recommended size is 8 mm.
  - Drill only the two upper holes for the mounting hooks and insert the provided anchors into them.
  - Screw the provided hooks into the anchors so that there is about a 5 mm gap between the hook and the wall.
  - Hang the CUBE on the hooks and mark the position of the screw hole on the wall as well as the position of the power cable entry on the CUBE box. *Pay attention that the incoming cable can only enter the CUBE in the designated space on the back of the housing.*
  - Remove the CUBE from the hooks, drill a hole at the marked location, and insert an anchor. Drill a hole on the CUBE box. *The hole must be located in the designated space on the back of the box and must not touch the edge of the designated area.*
  - Return the CUBE to the hooks, align it with the hole for the incoming cable, and fasten it with the provided screw.
4. Pull the power cable through.
5. Connect the wires from the power cable to the appropriate terminals: L1, L2, L3, N, PE. *Refer to the Wiring Diagram chapter.*
6. Replace the bottom cover.
7. Reattach the plastic rivets to secure the bottom cover.
8. Turn on the device power at the previously switched-off circuit breaker.

## BOX OPENING PROCEDURE



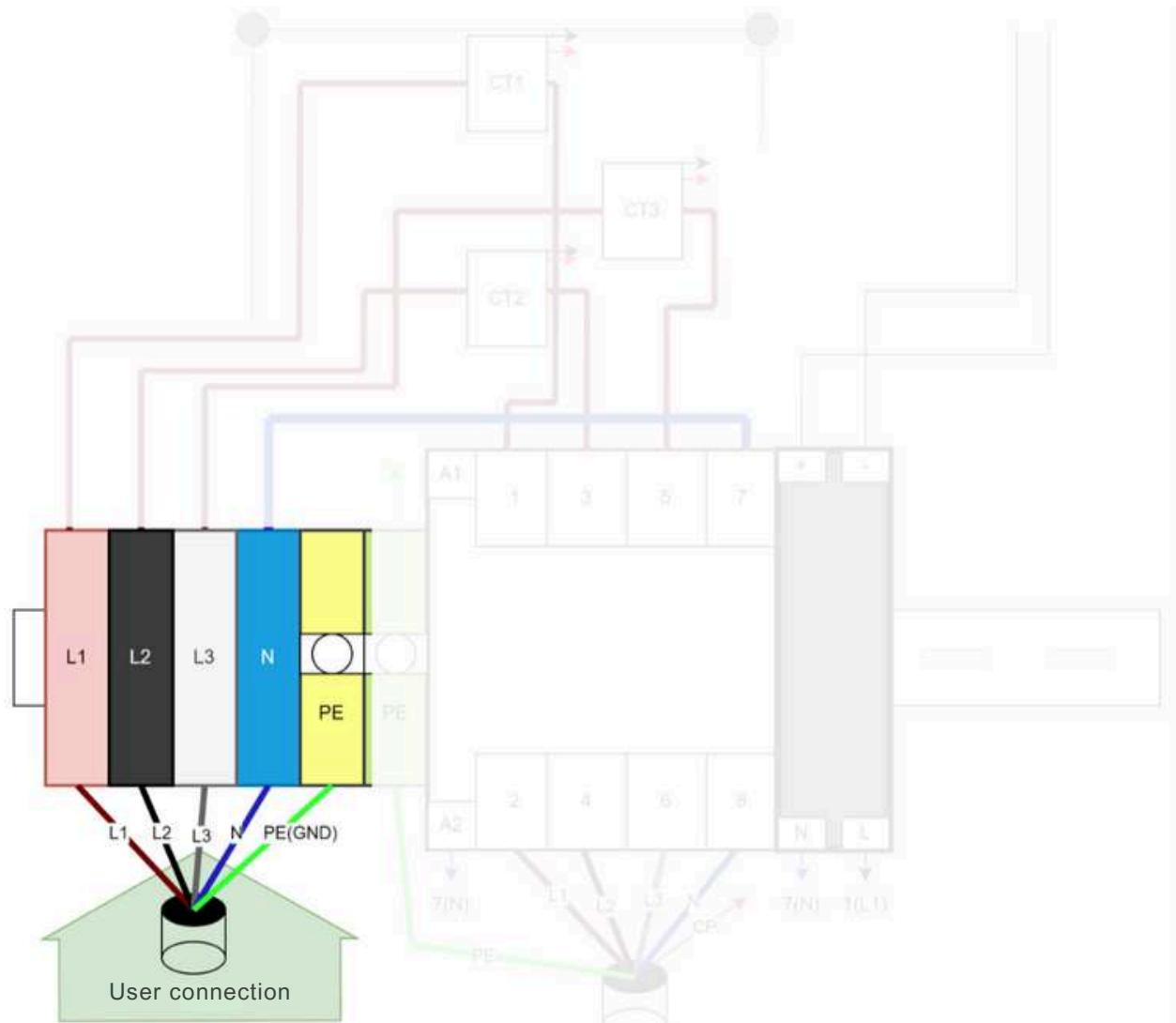
Insert the rivet tool into the plastic rivets.

Ask ChatGPT



Turn in the direction shown in the photo. Repeat the procedure on all three rivets. Once the rivets are unlocked, carefully pull them out of the CUBE and remove the bottom part of the CUBE by pulling it towards yourself.

# WIRING DIAGRAM



# CUBE OPERATING SCENARIOS

**! THE CUBE CHARGING CURRENT IS LIMITED TO 6A UNTIL THE DEVICE IS CONNECTED VIA THE SPARKSHARE APP.**

## SCENARIO 1: USING ALL THE FEATURES OF THE SPARKSHARE NETWORK

If you want to use all the functionalities offered by the SparkShare network, including a publicly available charger in the mobile app, monitoring and control via the mobile app and/or SparkShare portal, energy sharing, and other features, it is necessary to:

1. Install the CUBE and power on the device.
2. Download the SparkShare mobile app by scanning the QR code found in the installation brochure.
3. Create an account and connect to the device via Bluetooth.
4. Configure the device settings according to your preferences.
5. Download your device's QR code from the SparkShare Portal.
6. Place the QR code in a visible location so that users who want to use the charger can start charging by scanning the QR code.



Functions that need to be enabled:  
"Visible on map"  
"Cloud"

## SCENARIO 2: PRIVATE CHARGER WITH MONITORING AND CONTROL

If you want to have monitoring and control over the charger via the mobile app and/or portal but do not want it to be publicly accessible, you need to:

1. Install the CUBE and power on the device.
2. Download the SparkShare mobile app by scanning the QR code found in the installation brochure.
3. Create an account and connect to the device via Bluetooth.
4. Configure the device settings according to your preferences and select the "Preauthorized" option in the settings.

U In this case, there is no need to scan a QR code to start charging. Charging begins automatically as soon as the charger is connected to the vehicle.

Note: When using this option, no WTC tokens are exchanged.



Functions that need to be enabled:  
"Cloud"  
"Preauthorized"

### SCENARIO 3: CUBE WITHOUT MONITORING AND CONTROL

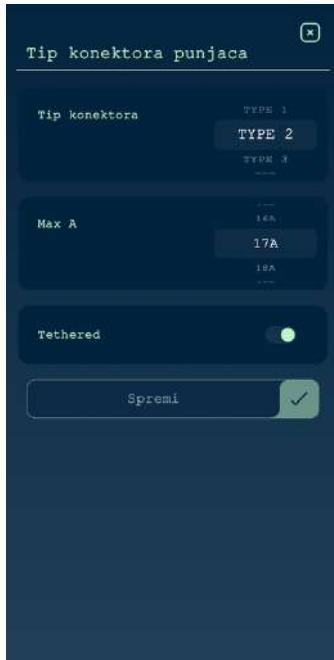
If you do not want to have control and monitoring of your CUBE device or cannot ensure a stable internet connection, it can operate without smart functionalities. In this case:

- Charging starts automatically after connecting the vehicle.
- No possibility of monitoring and control via the mobile app and/or portal.
- You do not have access to information about electricity consumption or other charging parameters.
- In this scenario, the CUBE serves exclusively as a simple "box" for charging the electric vehicle.

For this mode of operation, it is necessary to:

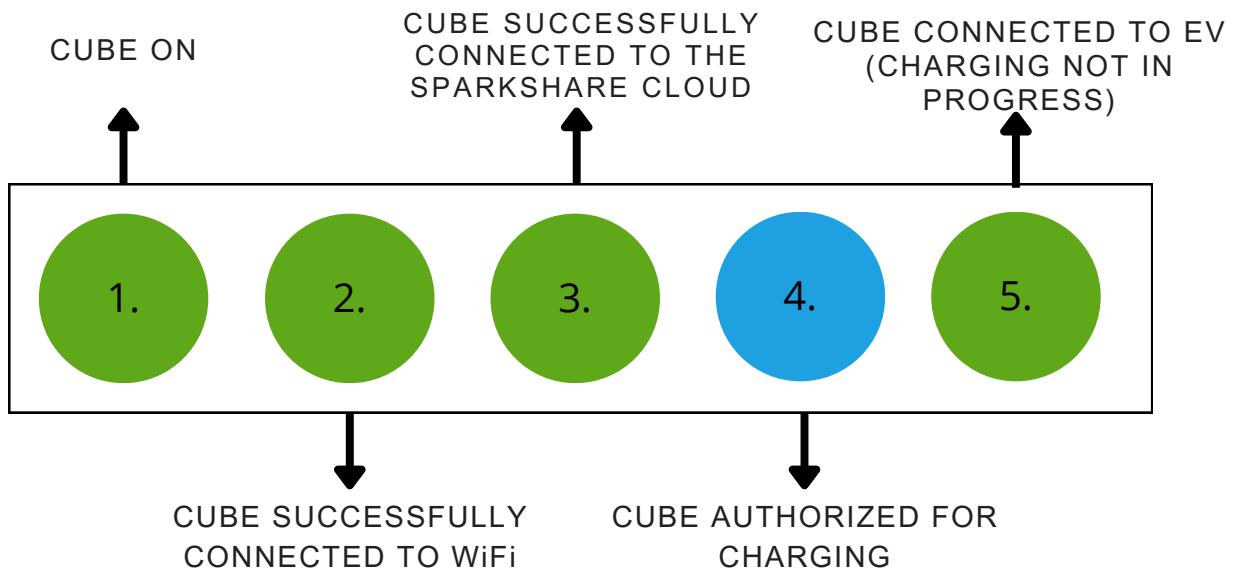
1. Install the CUBE and turn on the device.
2. Download the SparkShare mobile app by scanning the QR code found in the installation brochure.
3. Create an account and connect to the device via Bluetooth.
4. Set the device information according to your preferences.
5. Remove the device from the account (pages 48-52 of this User Manual).

This way, all previously set parameters will remain saved, but the device will start charging as soon as the vehicle is connected.



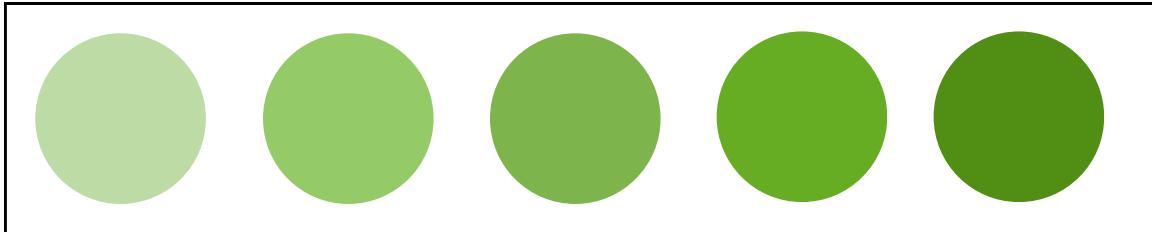
Functions that need to be enabled:  
None of the previously mentioned functions are required; it is only necessary to set the maximum current under the "Charger connector type" setting.

# LED INDICATOR DESCRIPTION



In case of a software error during operation, LED number 4 will light up **RED**. After sending the data, LED number 4 will blink **YELLOW** for a few seconds before the device restarts.

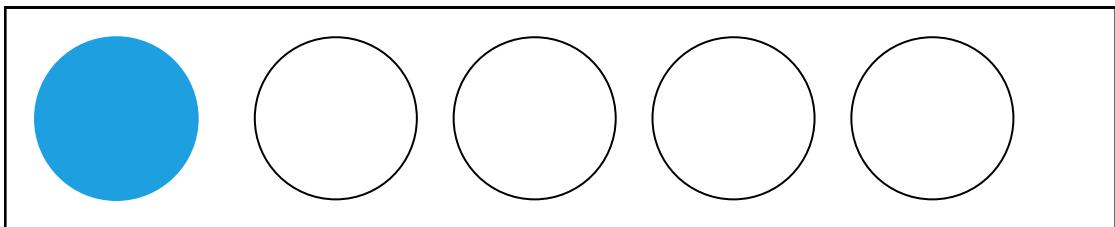
(CHARGING IN PROGRESS)



LED LIGHTS IN OPERATION

When the vehicle (EV) is charging, the LEDs light up one by one from 5 to 1, simulating the flow of current to the vehicle (**GREEN**).

OTA UPDATES



During OTA (Over-the-Air) updates, LED number 1 turns **BLUE**. If the update is successful, LED number 1 briefly lights **GREEN**, then returns to **BLUE**, followed by the device restarting.

If an error occurs during the OTA update, LED number 1 will alternate between **BLUE** and **RED**. It will return to **GREEN** when the device resumes normal operation.

# TROUBLESHOOTING

FAULT DESCRIPTION	REPAIR RECOMMENDATIONS
CUBE has powered off	Check the power circuit. If there is no power outage, inspect the fuse and the RCD (Residual Current Device). If both are closed, open the CUBE and check for voltage presence at the input terminals using a voltmeter, multimeter, voltage tester screwdriver (vibrator), or another suitable tool.
If the CUBE is hot	The temperature alarm will be displayed in the mobile app. The CUBE will remain operational once its temperature drops to a safe level.
Overvoltage / Undervoltage	A notification about overvoltage/undervoltage will be displayed in the mobile app. CUBE will not allow charging to start until the voltage supply returns to values within the allowed range.
Problems During Initial Installation	It is necessary to disconnect the CUBE from the mobile app and then repeat the device activation process.

# MAINTENANCE

To ensure the long-term stable functionality of the CUBE, perform regular maintenance (recommended at least once a month) according to the environmental conditions.

1. Maintenance should be carried out by qualified personnel.
2. Check that the equipment is properly grounded and safe.
3. Inspect the surroundings of the CUBE for any potential safety hazards.
4. Check for sources of high temperature, corrosion, or flammable and explosive substances near the CUBE.
5. Verify that the input terminals of the CUBE have a good connection with the incoming cable and check for any irregularities.

Please adhere to the safety instructions; otherwise, there may be a risk of life-threatening injury or device damage, for which SparkShare or the supplier assume no responsibility.

When disposing of the CUBE, please sort and recycle your waste in accordance with local recycling guidelines.

# INSTRUCTIONS FOR



## MOBILE APP

# CONTENT

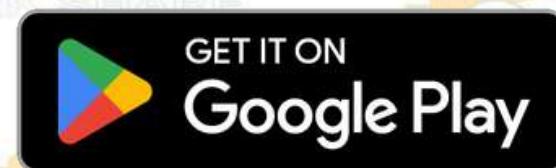
1. Downloading the mobile application	157
2. Registration	158
3. Adding a device	161
4. Conversion EUR - WTC	168
5. Transfer of WTC tokens	170
6. Charging at SparkShare locations for users without SparkShareBOXEV	174
7. Device deactivation	176
8. Account deletion	183

# DOWNLOADING

Download the mobile application available  
in the [Apple App Store](#)



and [Google Play Store](#).

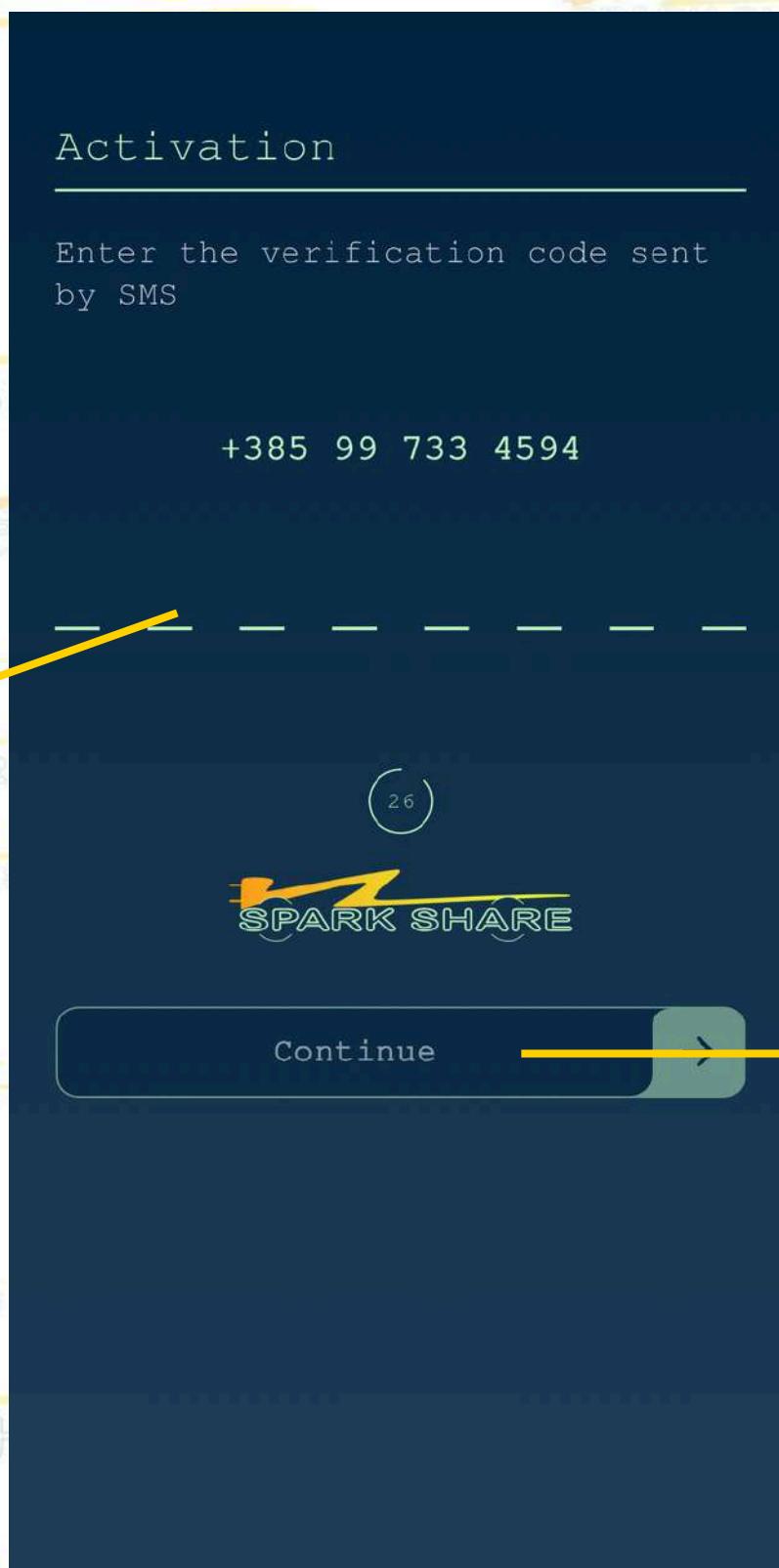


# REGISTRATION

Upon downloading the application, you will need to register in the following manner:



In a few seconds, you will receive an activation code via SMS.



Enter your new PIN, and then confirm it by re-entering it. You will need this PIN for all future access to the application.

### Activation

Enter your unique login PIN

---

-----

1	2	3
4	5	6
7	8	9
0		

By creating a PIN, I confirm that I have read these [Terms of Use](#) and [Privacy Policy](#) and that I accept them

### Activation

Repeat PIN entry

---

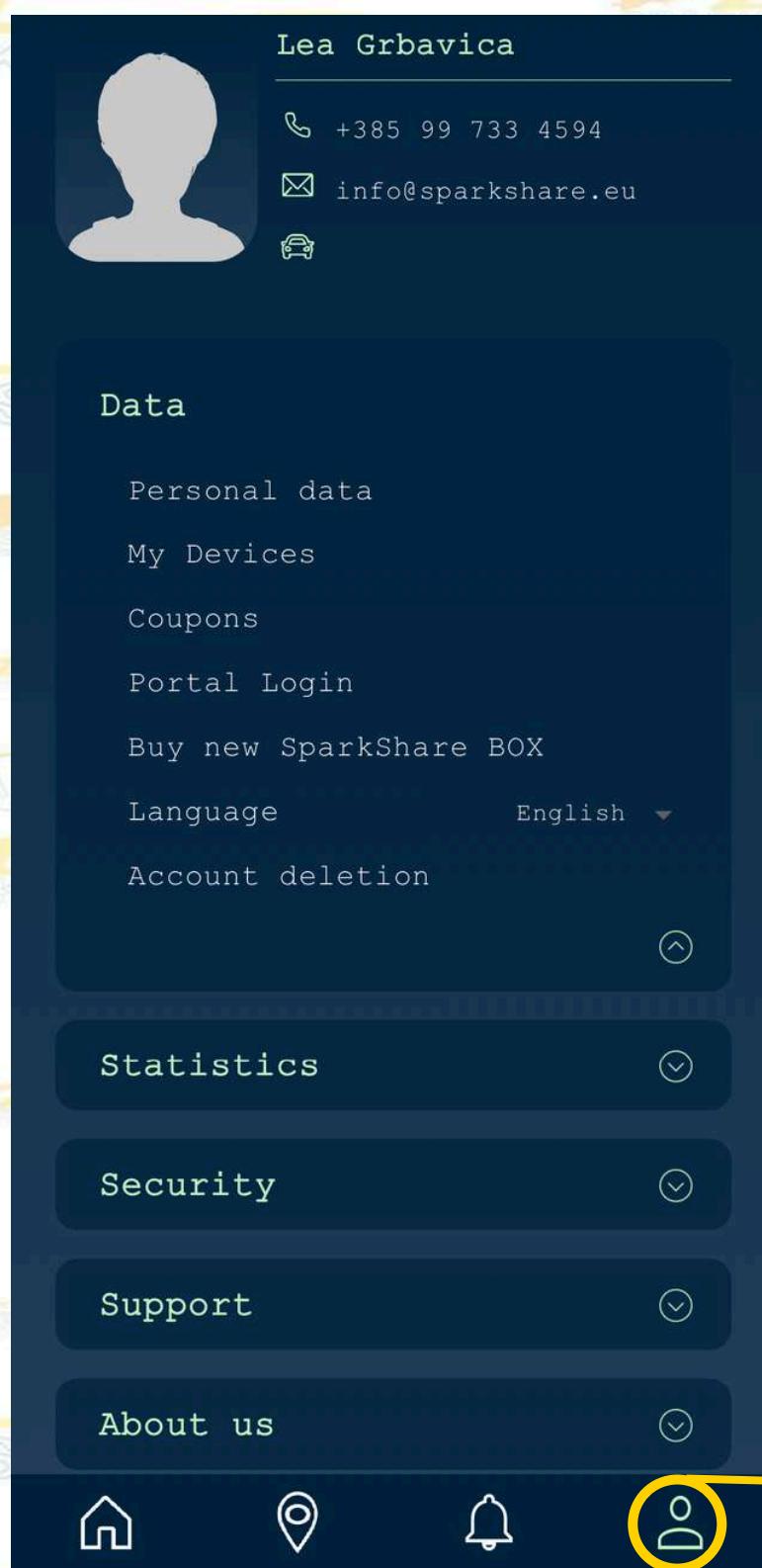
-----

1	2	3
4	5	6
7	8	9
0		

By creating a PIN, I confirm that I have read these [Terms of Use](#) and [Privacy Policy](#) and that I accept them

# ADDING A DEVICE

The device is set to a **6A limit!** To increase the capacity, you need to **connect the device to the mobile app.**



On the home page, select "Profile"

Lea Grbavica

📞 +385 99 733 4594

✉️ info@sparkshare.eu



## Data

Personal data

**My Devices**

Coupons

Portal Login

Buy new SparkShare BOX

Language

English ▾

Account deletion



Statistics



Security



Support



About us



Select  
'My Devices'

If you have one  
or more  
devices, they  
will be  
displayed here

## My Devices

048C6471

Available

Stanka Vraza 7, 31000 Osijek

Total kW/WTC

0.00/0.00

Temp. 33°C

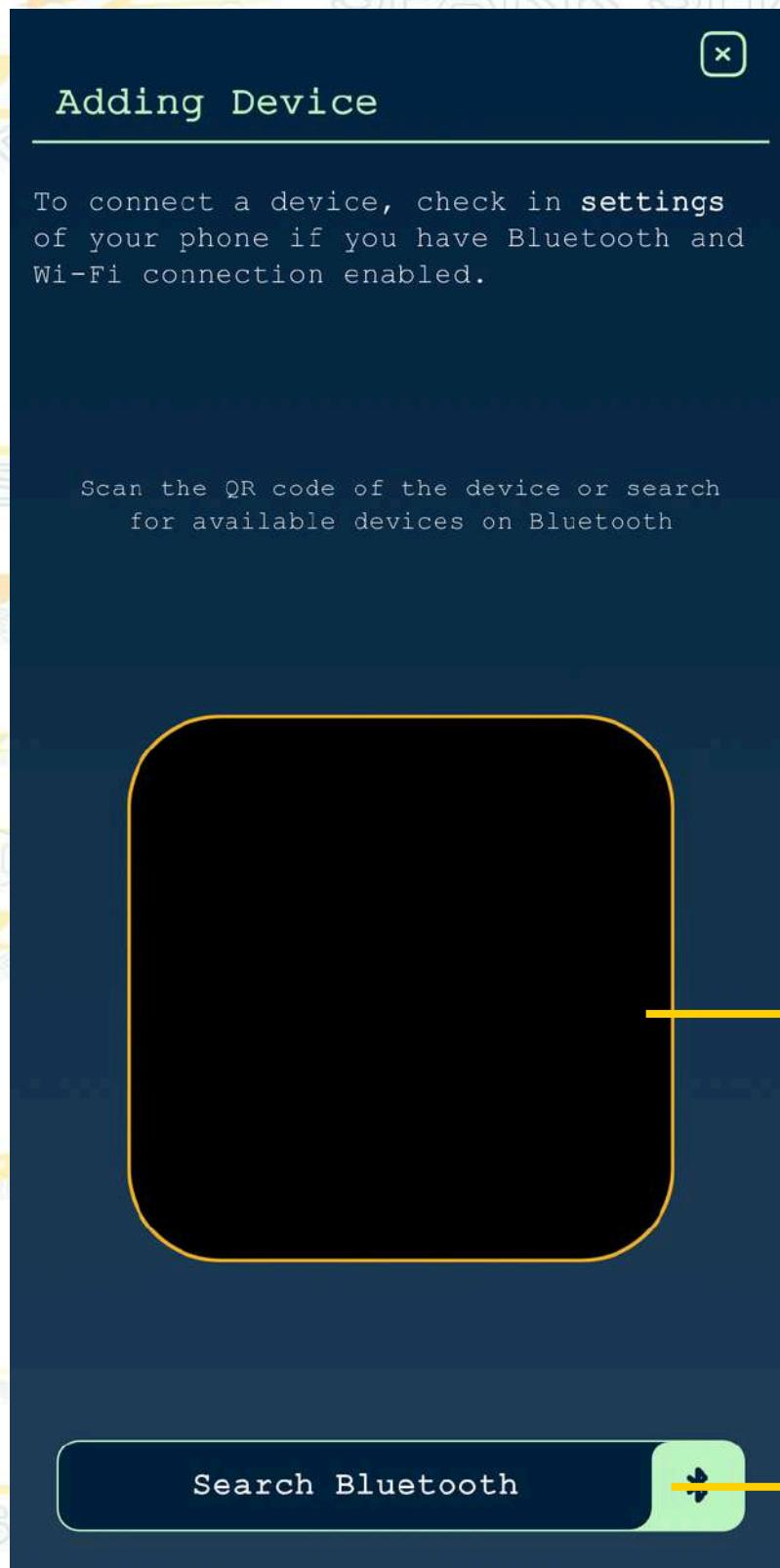
FW ver. 1.6.19

If you have one  
or more  
devices, they  
will be  
displayed here

Add New

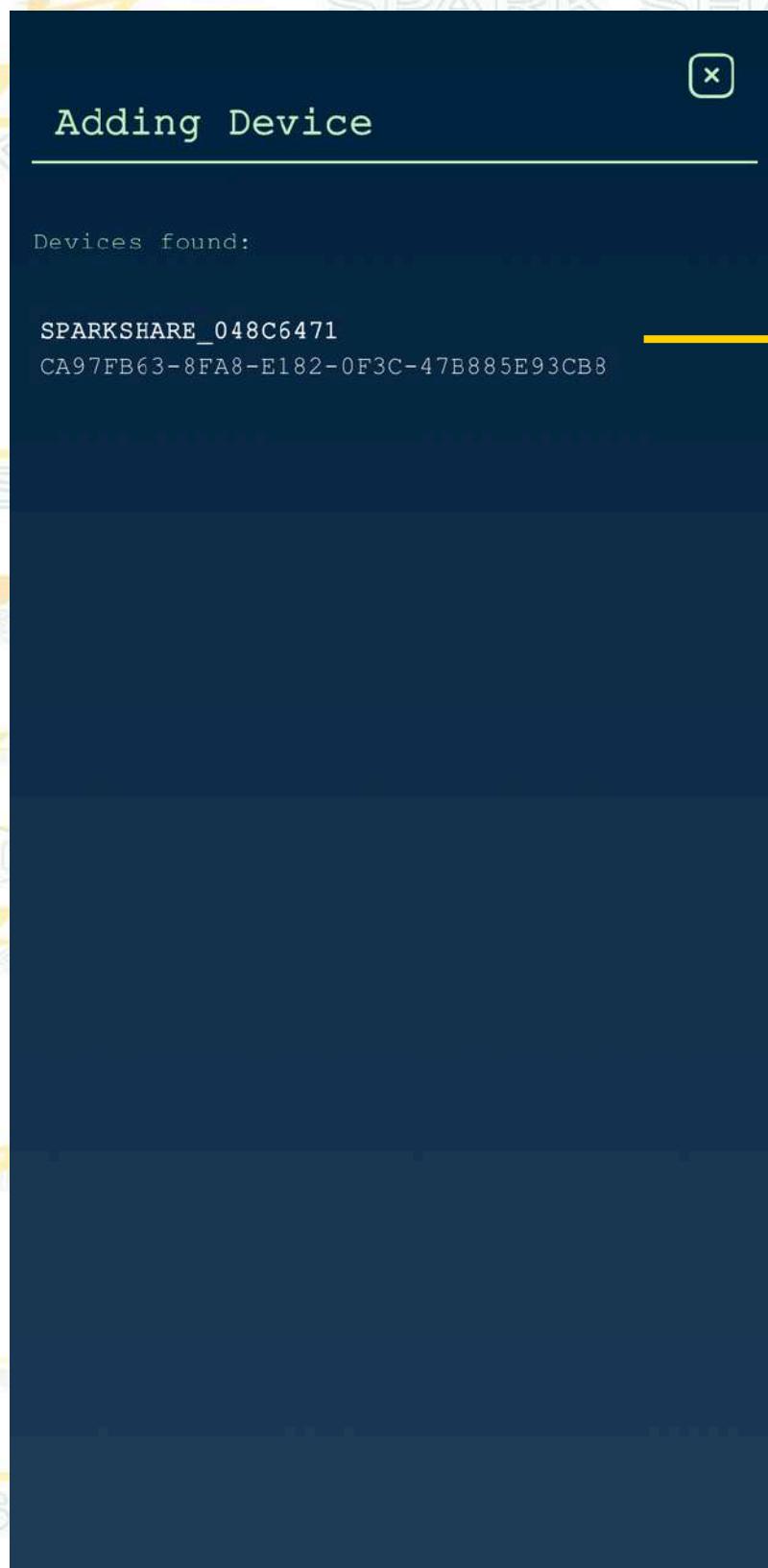
If you want to  
add more  
devices, select  
"Add New"

If you do not have a connected device to your user account, a 'Adding Device' window will open automatically.



**The device does NOT connect via Bluetooth of the mobile device, but exclusively through the SparkShare mobile app.**

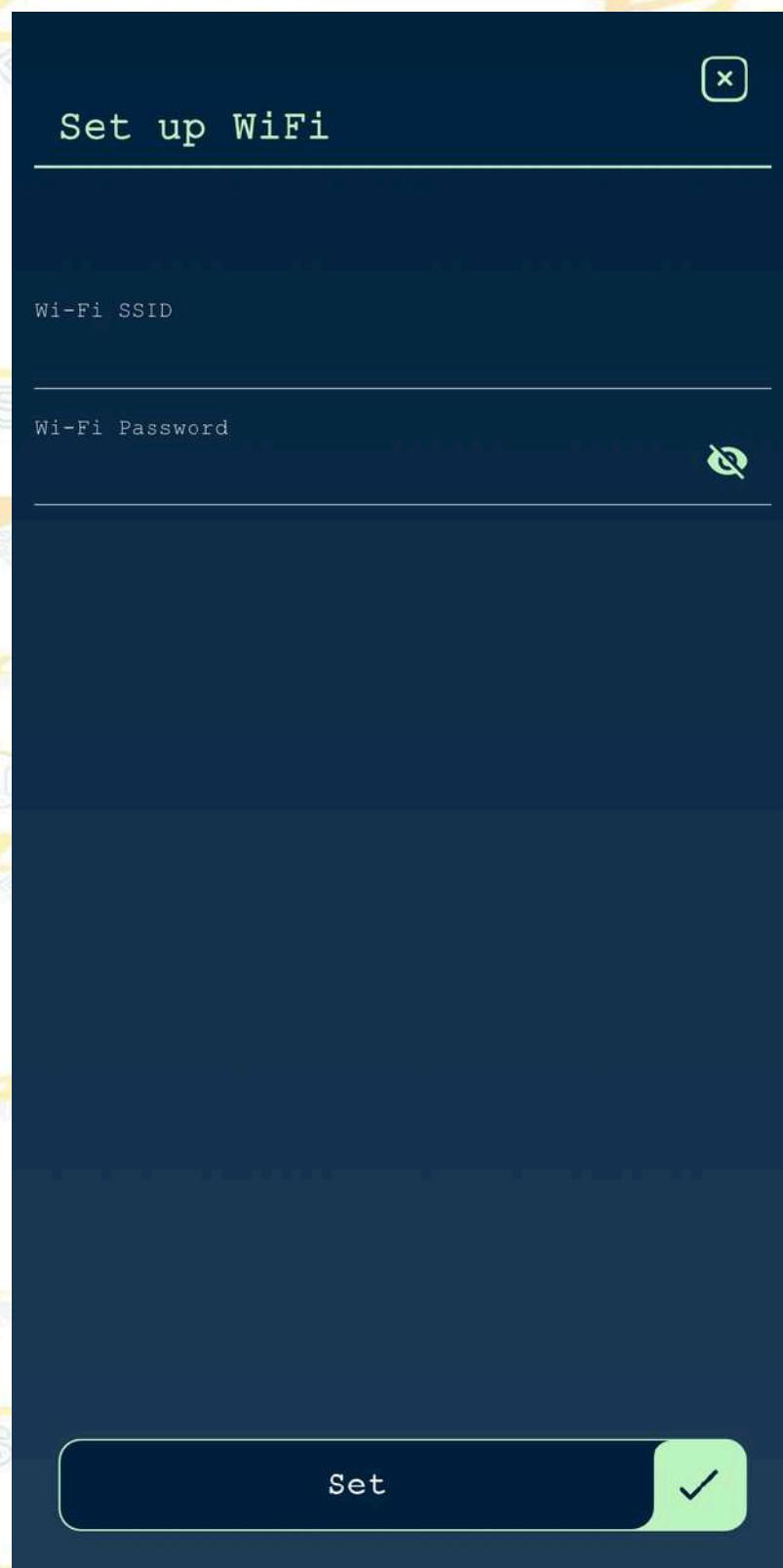
If you select "Search Bluetooth," the following window will appear.



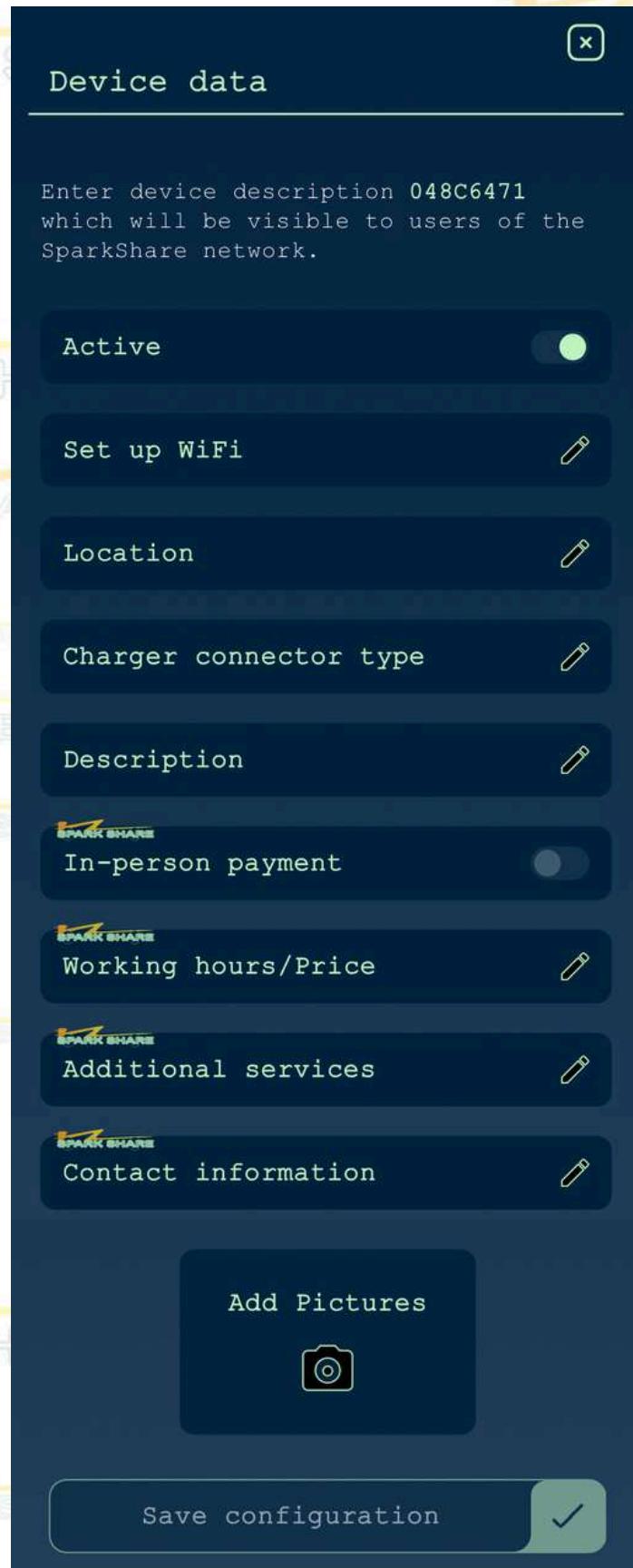
Select the device you want to add to your user account

**When activating the SparkShareBOXEV through the mobile app, the BOX must not be connected to the EV!**

After selecting the device, the "Set up WiFi" window will appear. In this window, you will need to enter the WiFi network details to which the device will connect.

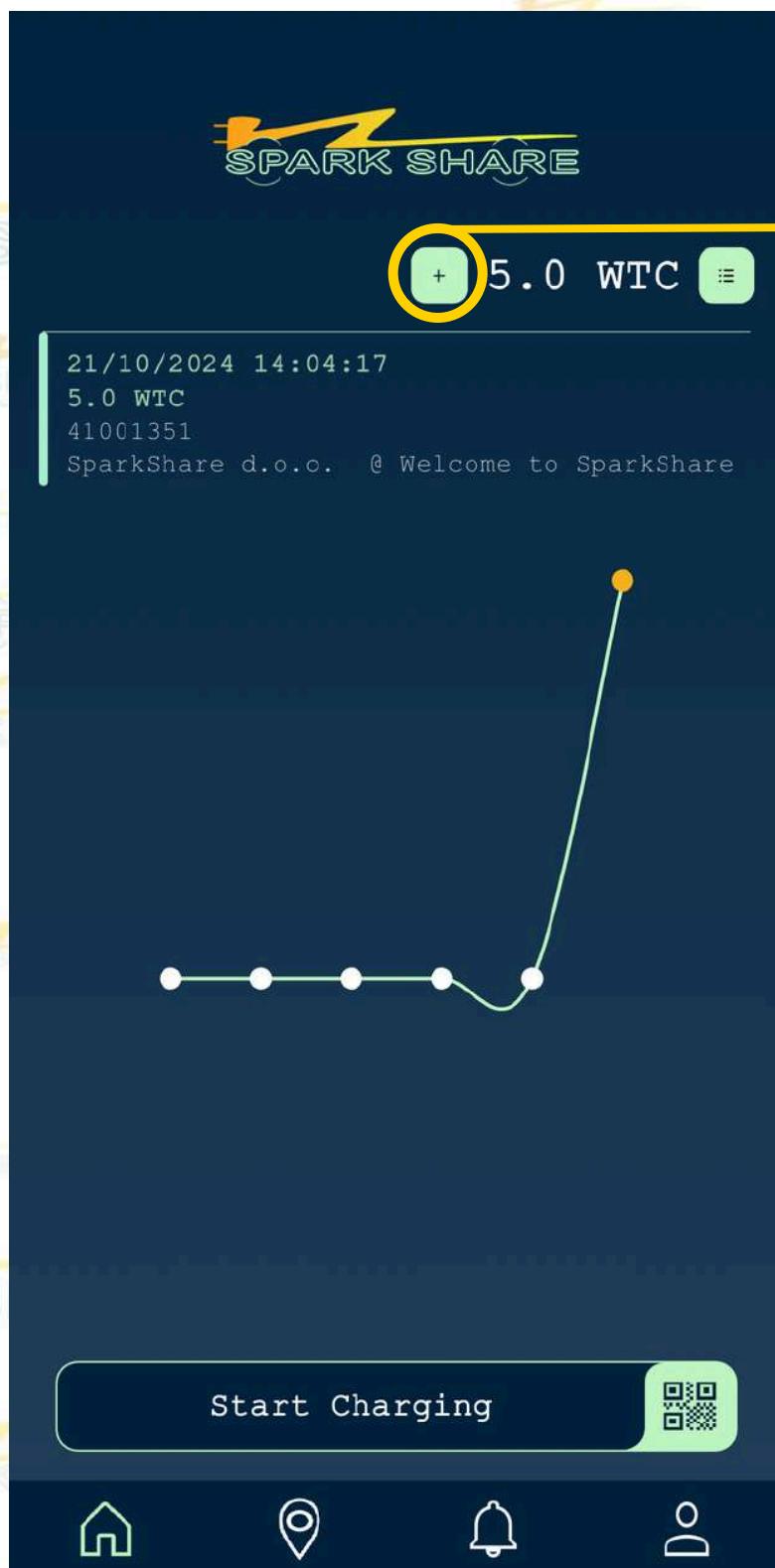


After entering the WiFi details, the mobile app and the device will be connected. You will then be able to enter the details for your SparkShareBOXEV.



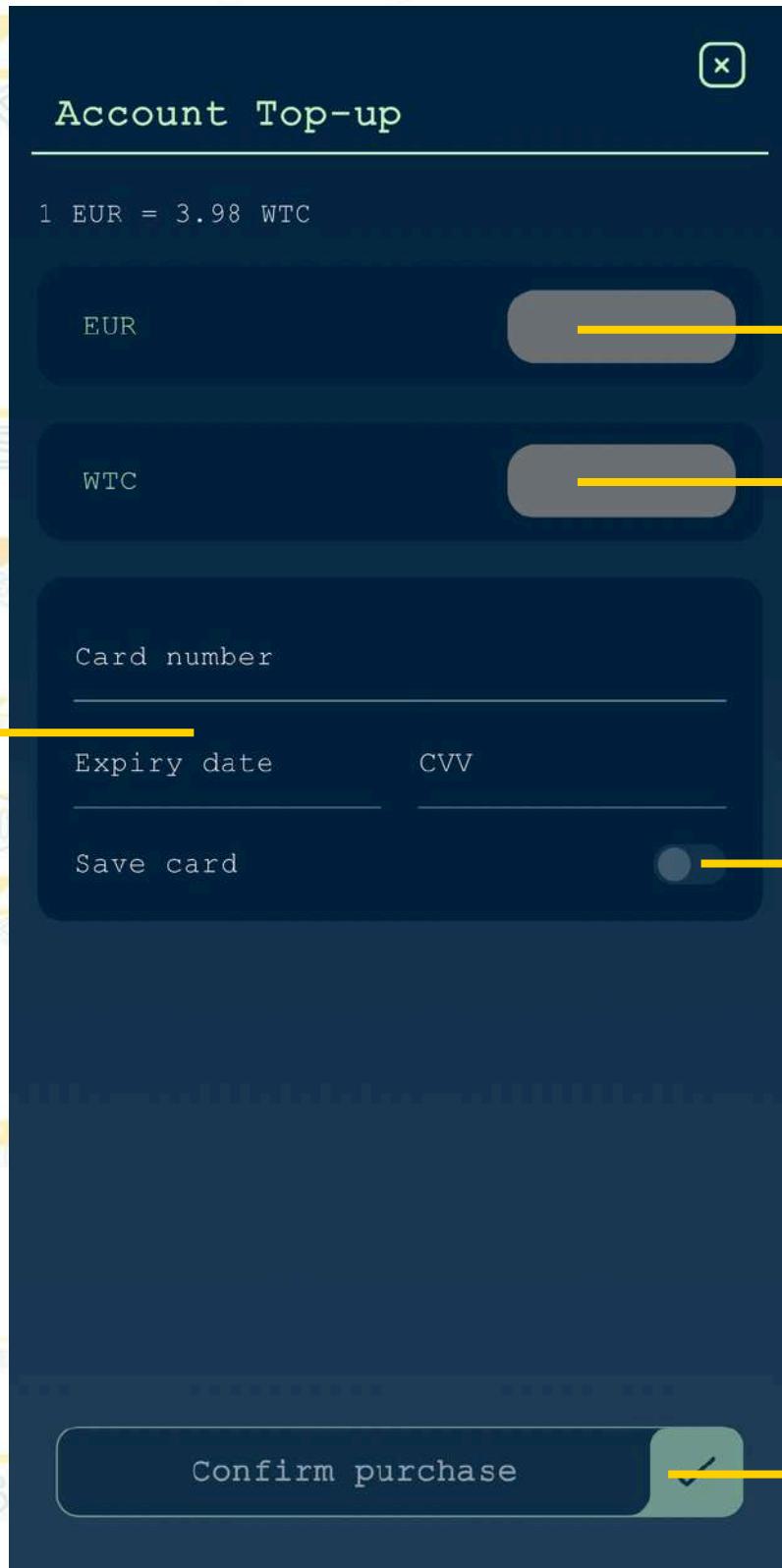
# CONVERSION EUR-WTC

Within the SparkShare community, the medium of exchange for energy transactions is WTC tokens. The deposit of WTC tokens to your SparkShare account is carried out as follows:



On the home page, select the circled icon

After selecting the + icon, "Account Top-up" will open



In the designated field, enter the amount in euros that you wish to deposit

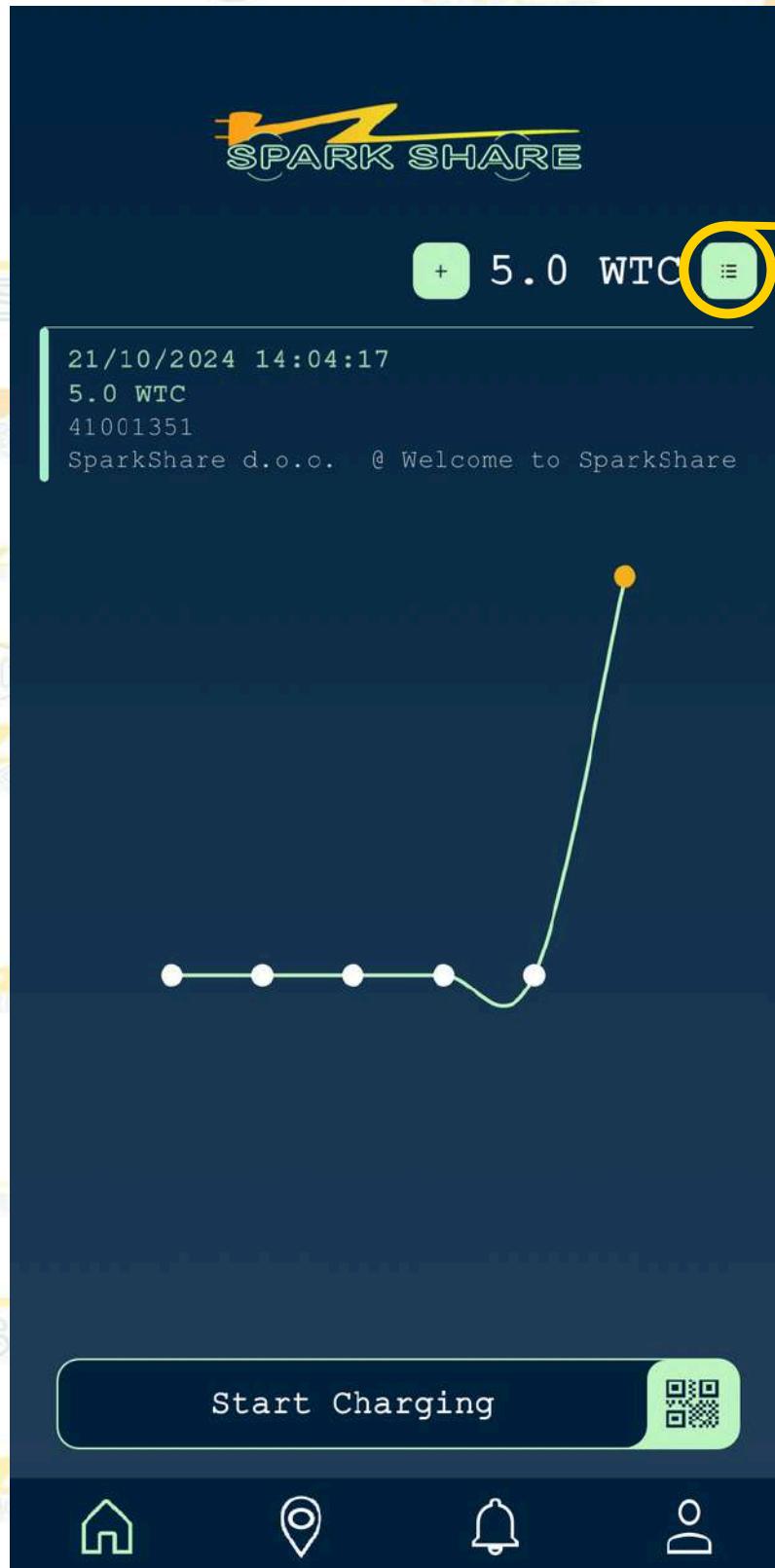
The amount in euros will be automatically converted to the equivalent in WTC tokens

By enabling the "Save card" option, the details will be saved in the app, which can speed up the process of depositing funds

After entering the necessary information, select "Confirm purchase"

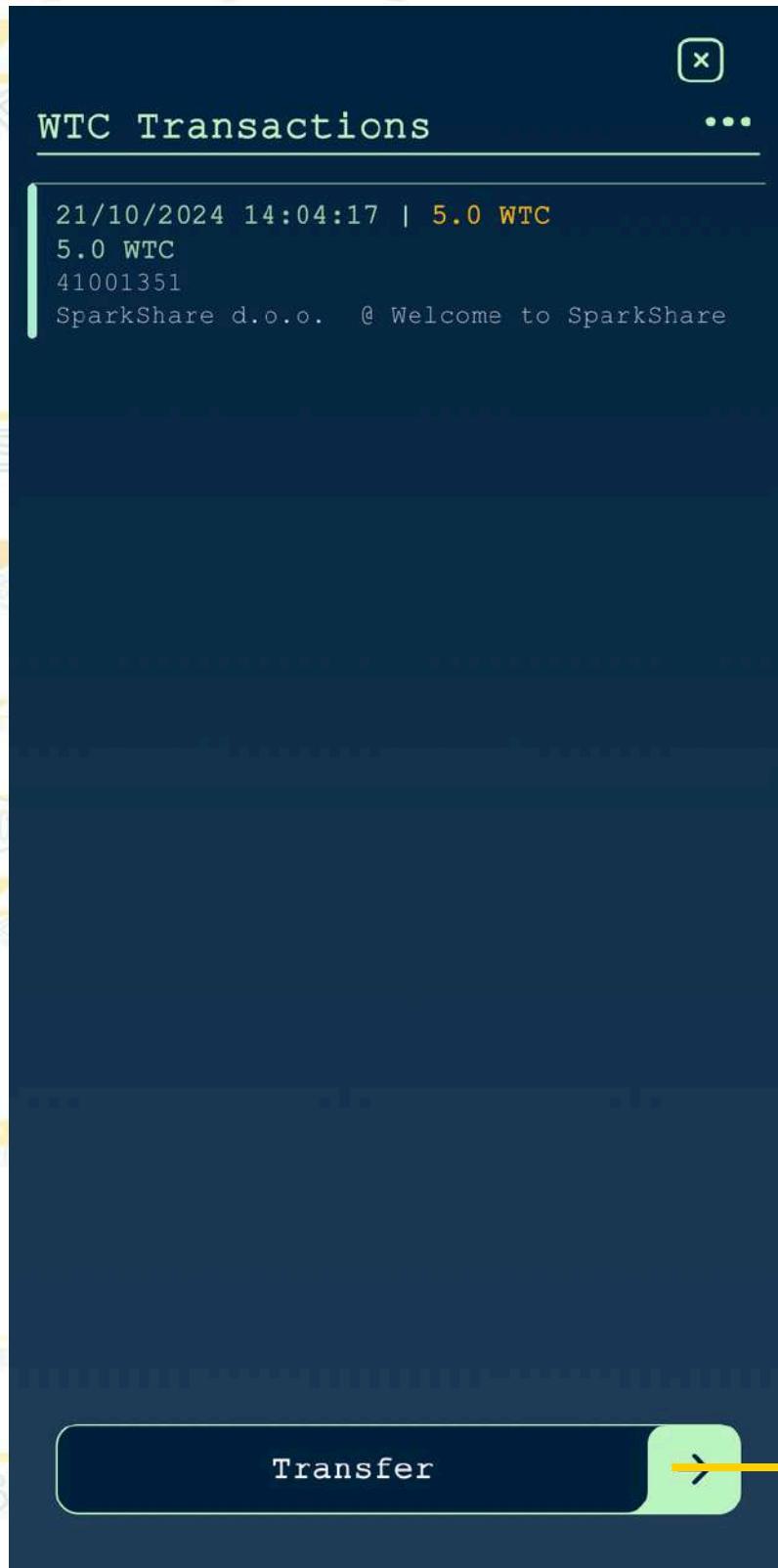
# TRANSFER OF WTC TOKENS

If you want to transfer WTC tokens from your account to another member of the SparkShare community, the steps are as follows:



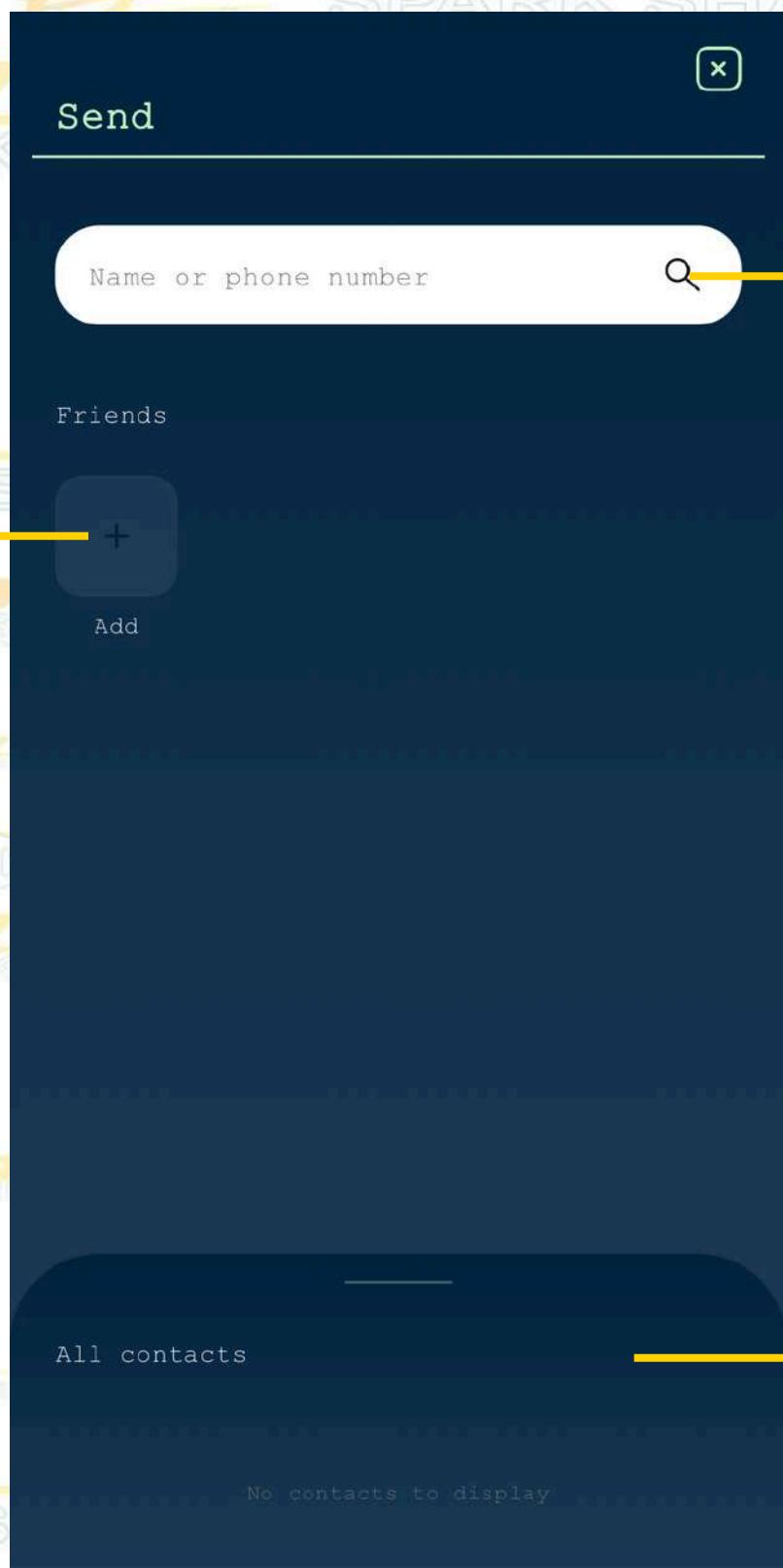
On the home page, select the circled icon

After selecting the displayed icon, a list of WTC transactions will open



To make a transfer, you need to select "Transfer"

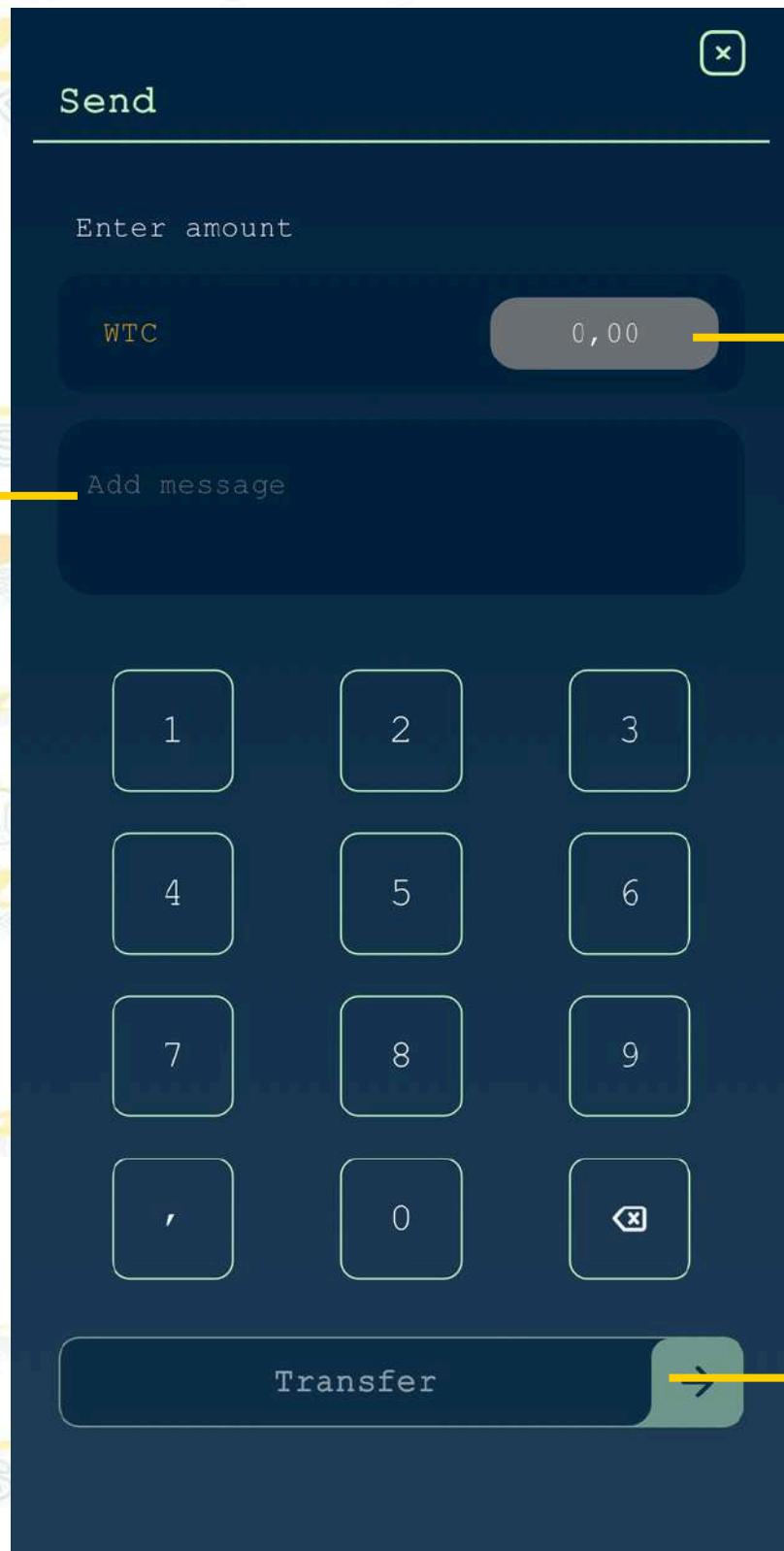
By selecting the "Add" option in the "Friends" section, you can add people from your contacts to quick dial, allowing for faster transfers of WTC tokens in future transactions



In the designated area, you can search for contacts by name or phone number

All your contacts will be displayed, and those who have the SparkShare app will have the SparkShare logo next to their name

After selecting the person from your contacts to whom you want to make the transfer, the following window will open:



If you wish, you can include a message with the transfer

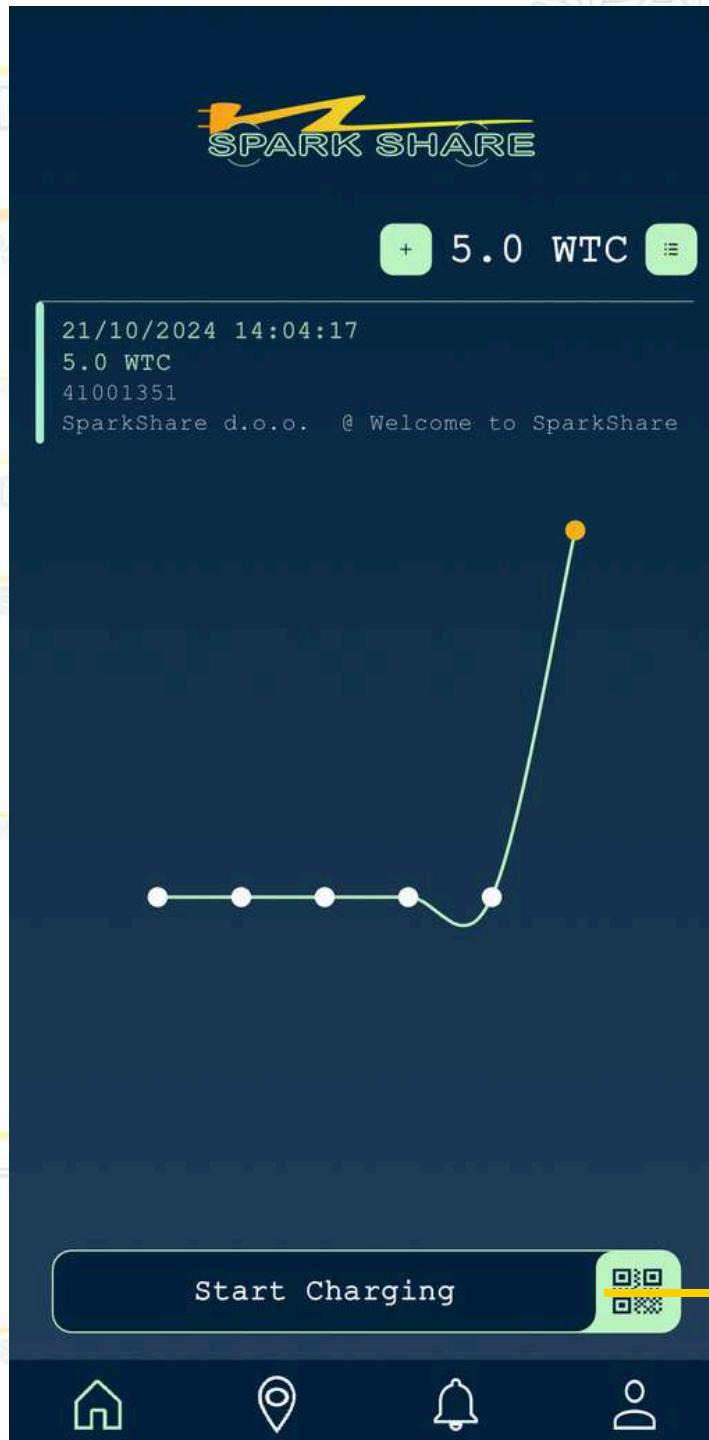
In the designated area, enter the amount of WTC tokens you wish to transfer

After entering the desired amount and optionally a message, press "Transfer"

# CHARGING AT SPARKSHARE LOCATIONS FOR USERS WITHOUT SPARKSHAREBOXEV

If you do not own your own SparkShareBOXEV, charging your EV at SparkShare locations is certainly possible.

You need to register in the SparkShare mobile app (explained in Chapter 2) and deposit funds into your SparkShare account (Chapter 4)



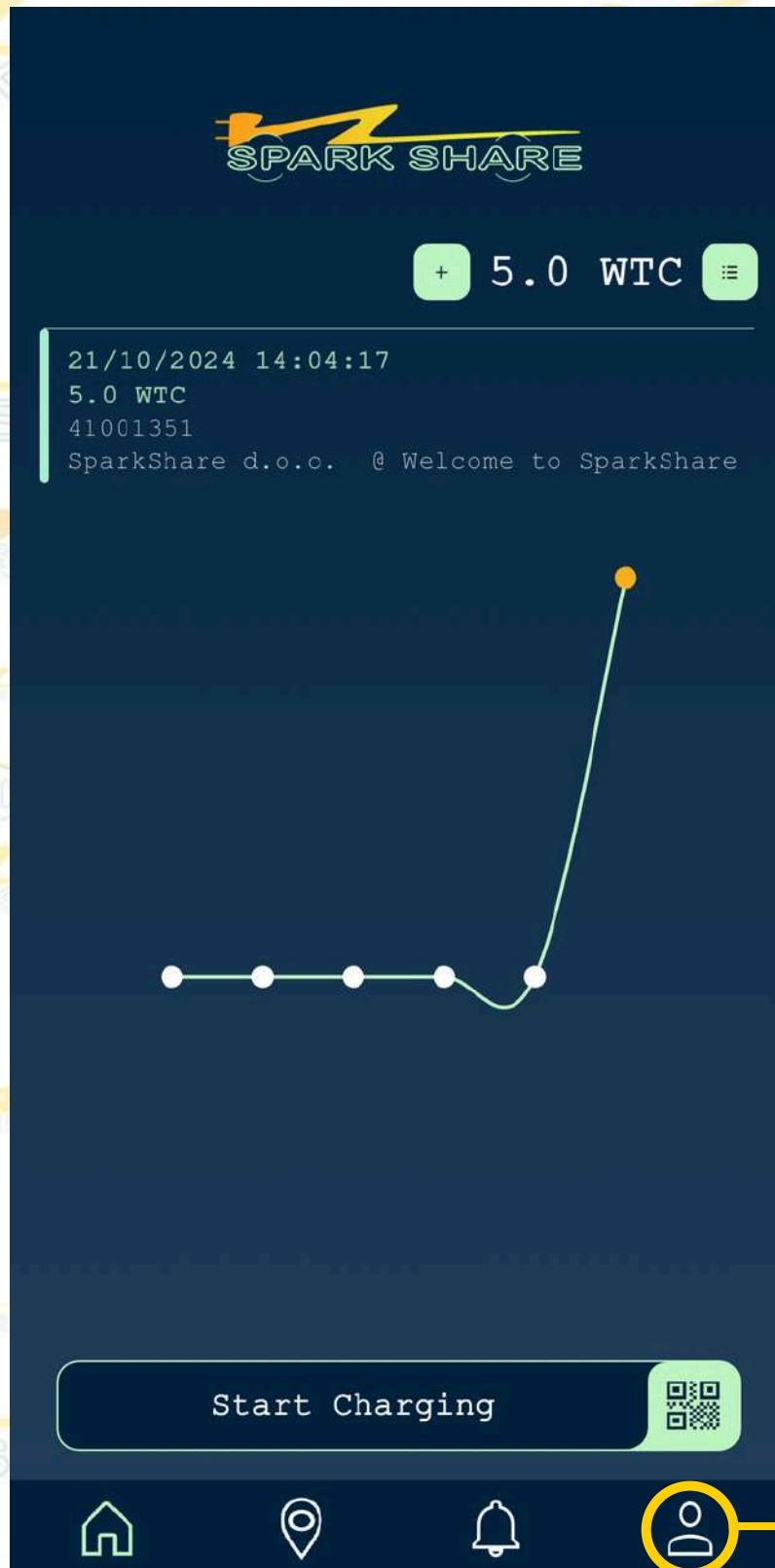
To start charging, you need to select "Start Charging" on the "Homepage"

## QR Code Scanning

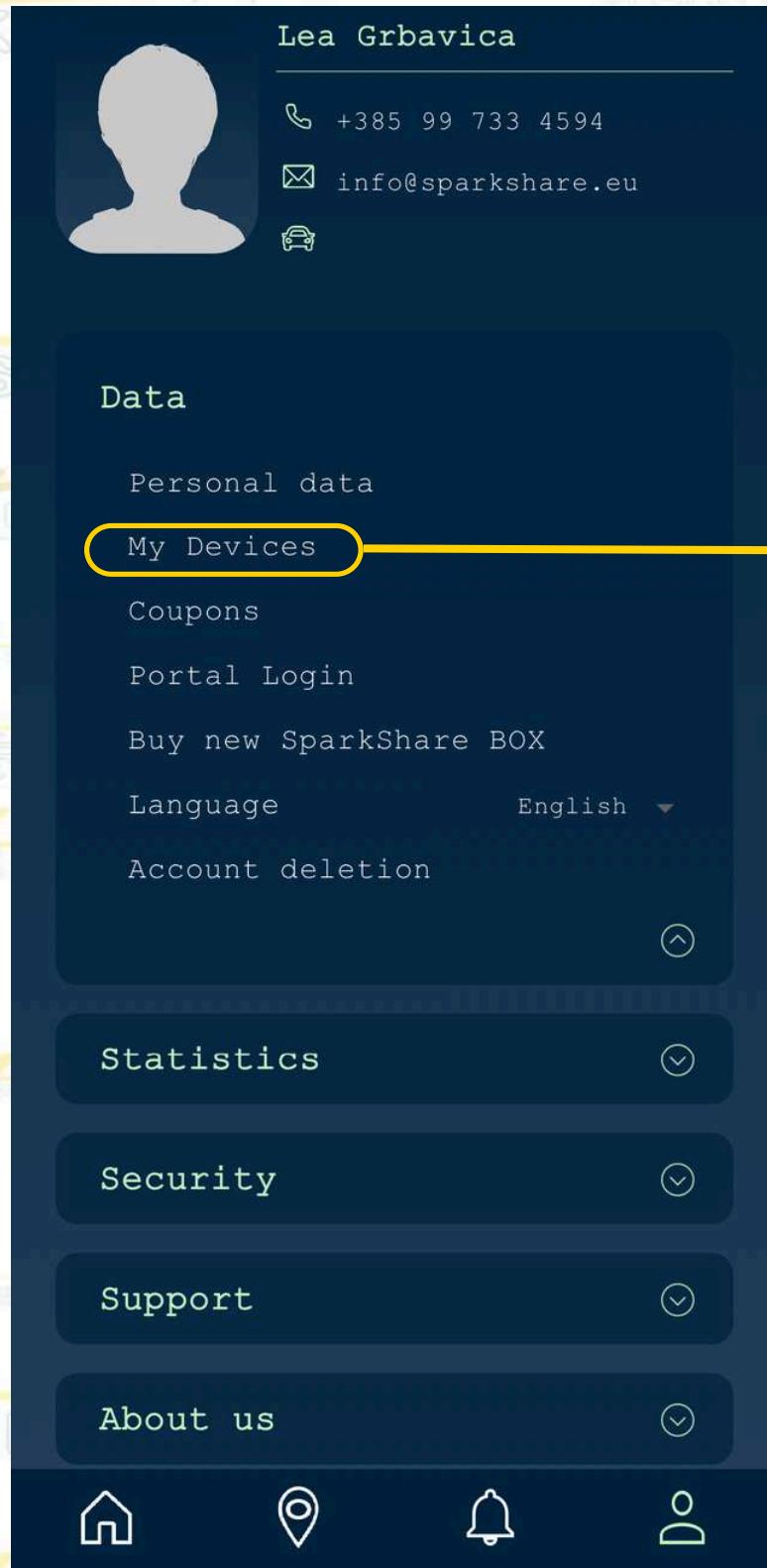
Bring your mobile device closer to the QR code sticker. The entire label should be within the displayed edges. Turn on the flash if necessary.

After selecting "Start charging," a window will open where you need to scan the QR code of the charger, after which the charging will begin

# DEVICE DEACTIVATION

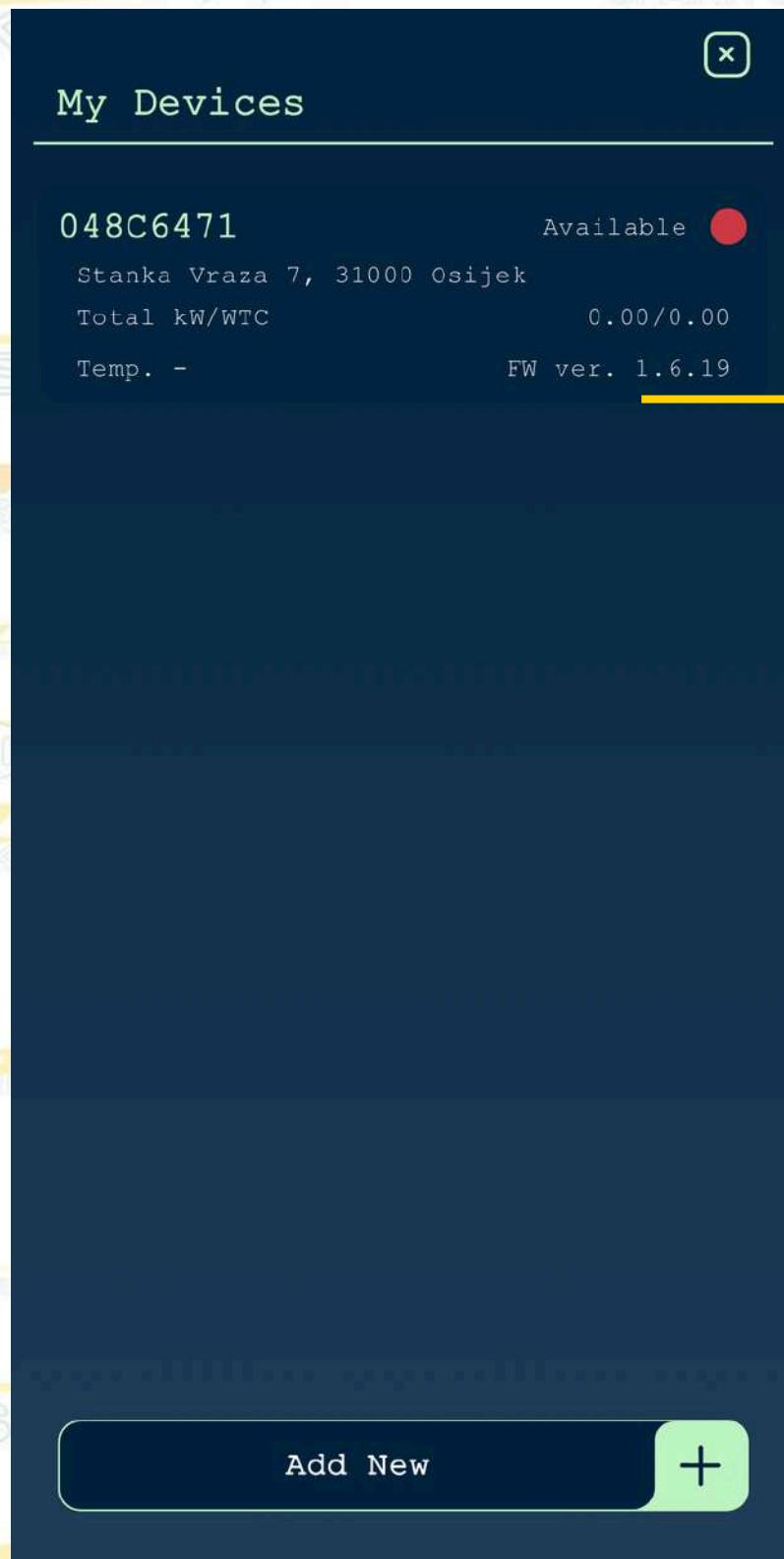


On the home page, select 'Profile'



Select "My Devices"

In the section "My Devices," all devices connected to the user account will be displayed.



Select the device  
on which you  
want to take  
specific actions

## Device Usage

048C6471

WTC  kWh 



To deactivate the selected device, choose the circled icon

12/23 01/24 02/24 03/24 04/24 05/24 06/24 07/24 08/24 09/24 10/24 11/24

## Device deactivation

048C6471

Stanka Vraza 7, 31000 Osijek

Available

Online status



0.0 / 0.0



Choose whether you want to only deactivate the device from your user account, delete the device configuration, or reset the device to factory settings and deactivate it from your account.

Remove from Account



Remove and delete data



Delete configuration



By selecting the "Remove from Account" option, the device will be removed from your account. All previously entered data (description, operating hours, images, etc.) will remain stored, allowing the new user to easily activate the device without having to re-enter information.

## Device deactivation

048C6471

Stanka Vraza 7, 31000 Osijek

Available

Online status



0.0 / 0.0



Choose whether you want to only deactivate the device from your user account, delete the device configuration, or reset the device to factory settings and deactivate it from your account.

Remove from Account



Remove and delete data



Delete configuration



By selecting the "Remove and delete data" option, the device will be removed from your account, and all entered data (description, operating hours, images, etc.) will be permanently deleted. This option is useful when you plan to sell the device, as it ensures that the new user will not have access to your data.

## Device deactivation

048C6471

Stanka Vraza 7, 31000 Osijek

Available

Online status



0.0 / 0.0



Choose whether you want to only deactivate the device from your user account, delete the device configuration, or reset the device to factory settings and deactivate it from your account.

Remove from Account



Remove and delete data



Delete configuration

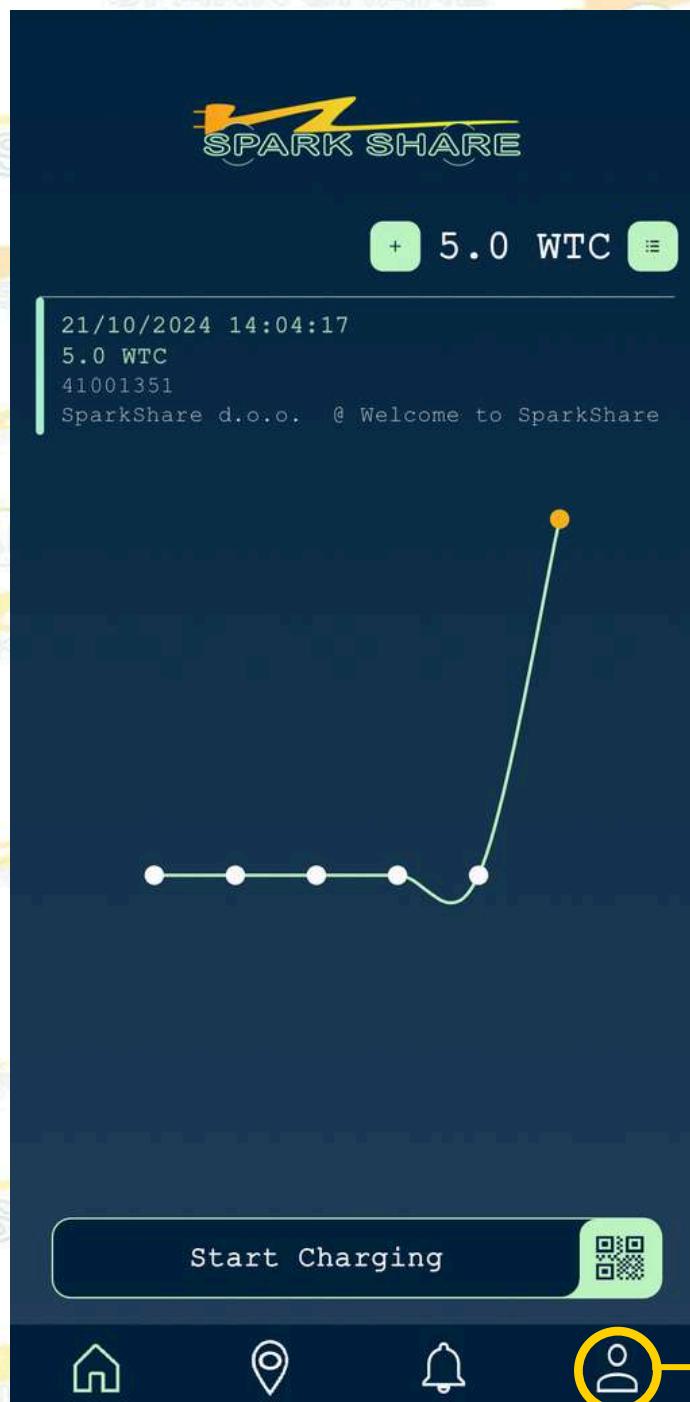


By selecting the "Delete configuration" option, all data entered for that device (description, operating hours, images, etc.) will be permanently deleted. This option is useful when you want to reset the device to its default settings, for example, after making numerous changes and wishing to return to the original state.

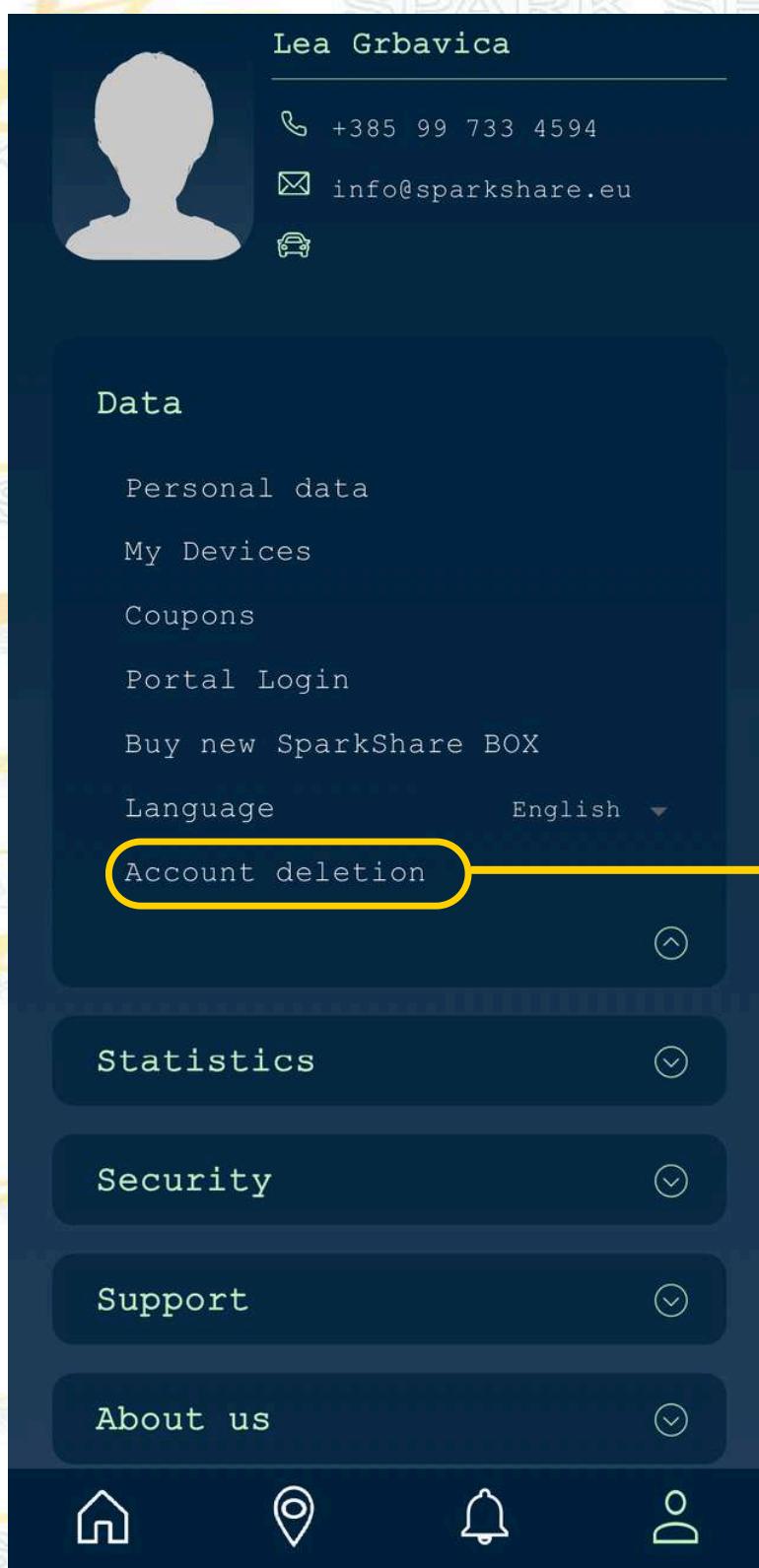
# ACCOUNT DELETION

The "Account deletion" option is used for the permanent removal of your user account from the SparkShare application. This process will deactivate all devices connected to your account.

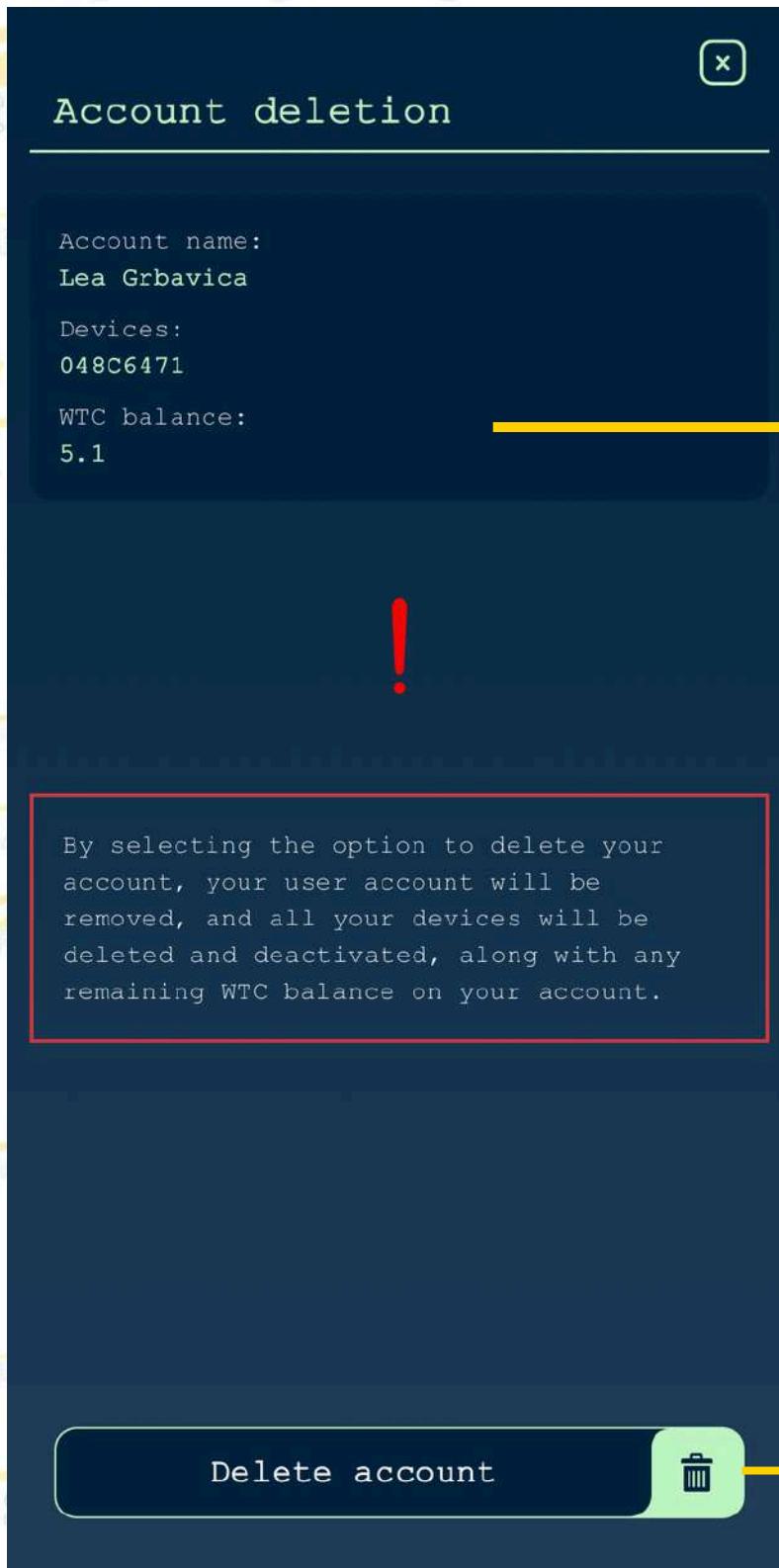
This option is useful when you have, for example, installed the SparkShare mobile application, activated it, used it, and then decided that you no longer wish to use the SparkShare application.



On the home page, select 'Profile'



In the "Profile,"  
select "Account  
deletion"



You will be taken to "Account deletion," where the devices connected to your user account and your WTC balance will be displayed

If you want to delete all of the above, select "Delete account"



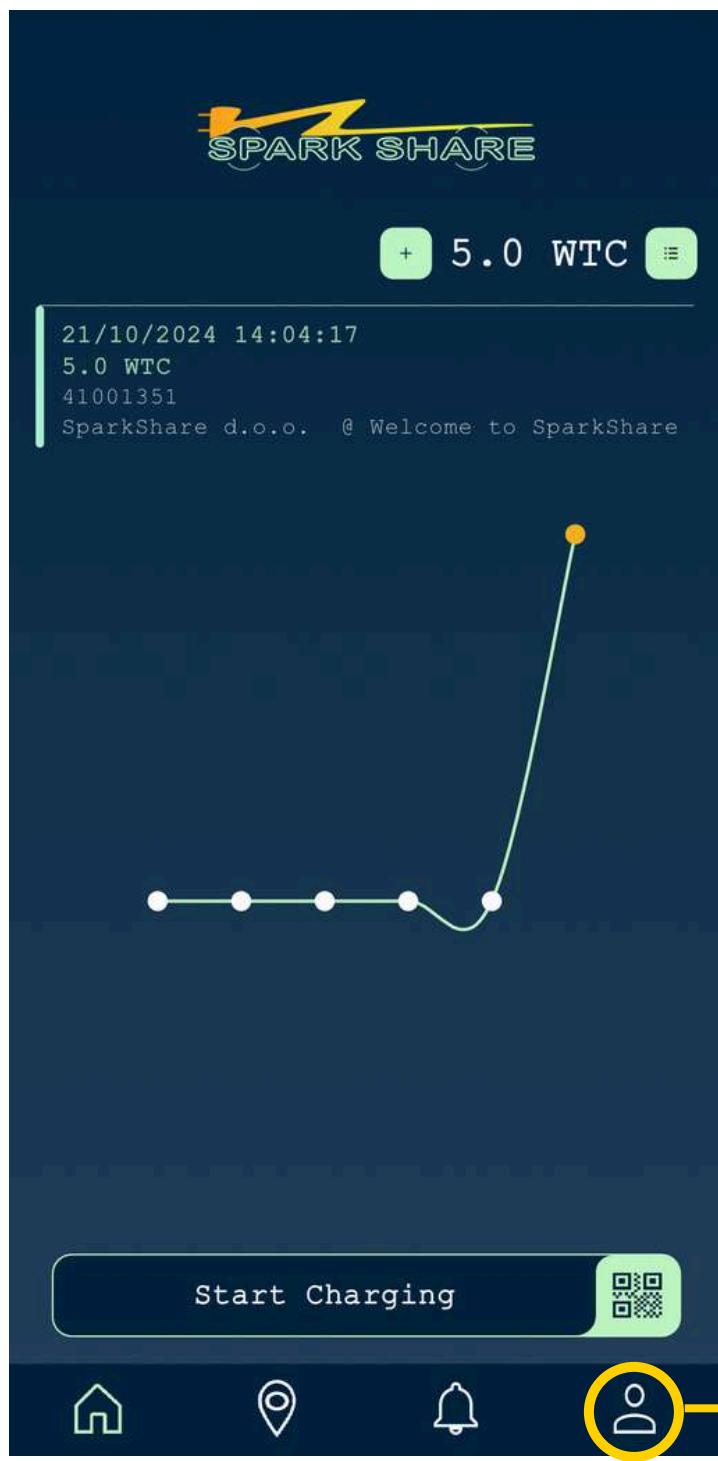
# **SPARKSHARE PORTAL**

# CONTENT

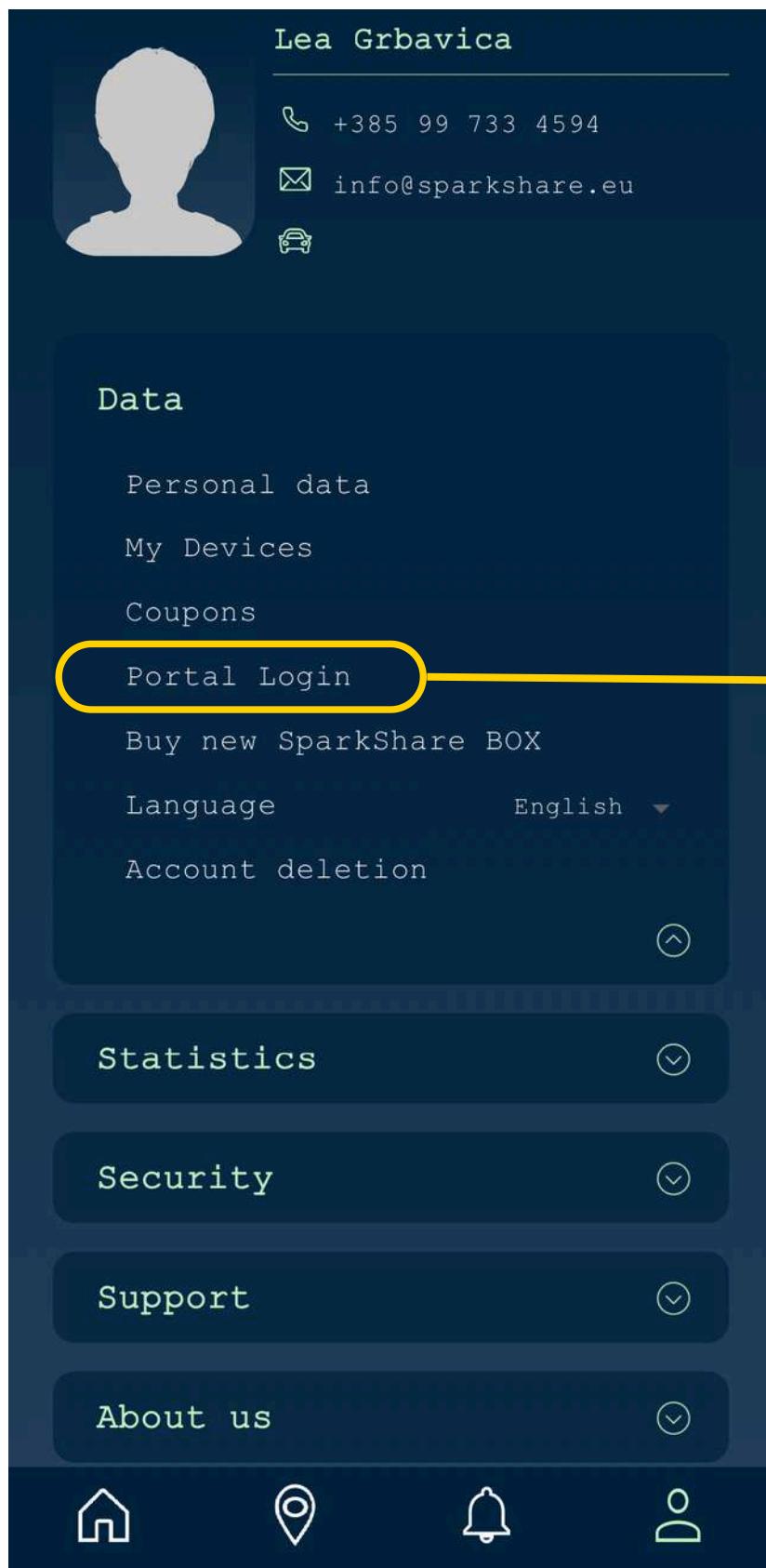
1. Log in to the SparkShare Portal	188
2. SparkShare box	192
• Data	192
• HeartBit	193
• Current Charging	194
• DNS Actions	195
• Charges	196
• EVSE	197
• Int.measurements	199
• Coupons	201
• Map	205
3. Account Transactions	206
4. Issued Invoices	207
5. Report a Problem	208
6. Profile	209
7. System Usage and Security Measures	210
8. Protection of Personal Data	210

# LOG IN TO THE SS PORTAL

The login to the SparkShare Portal is done through the SparkShare mobile app.

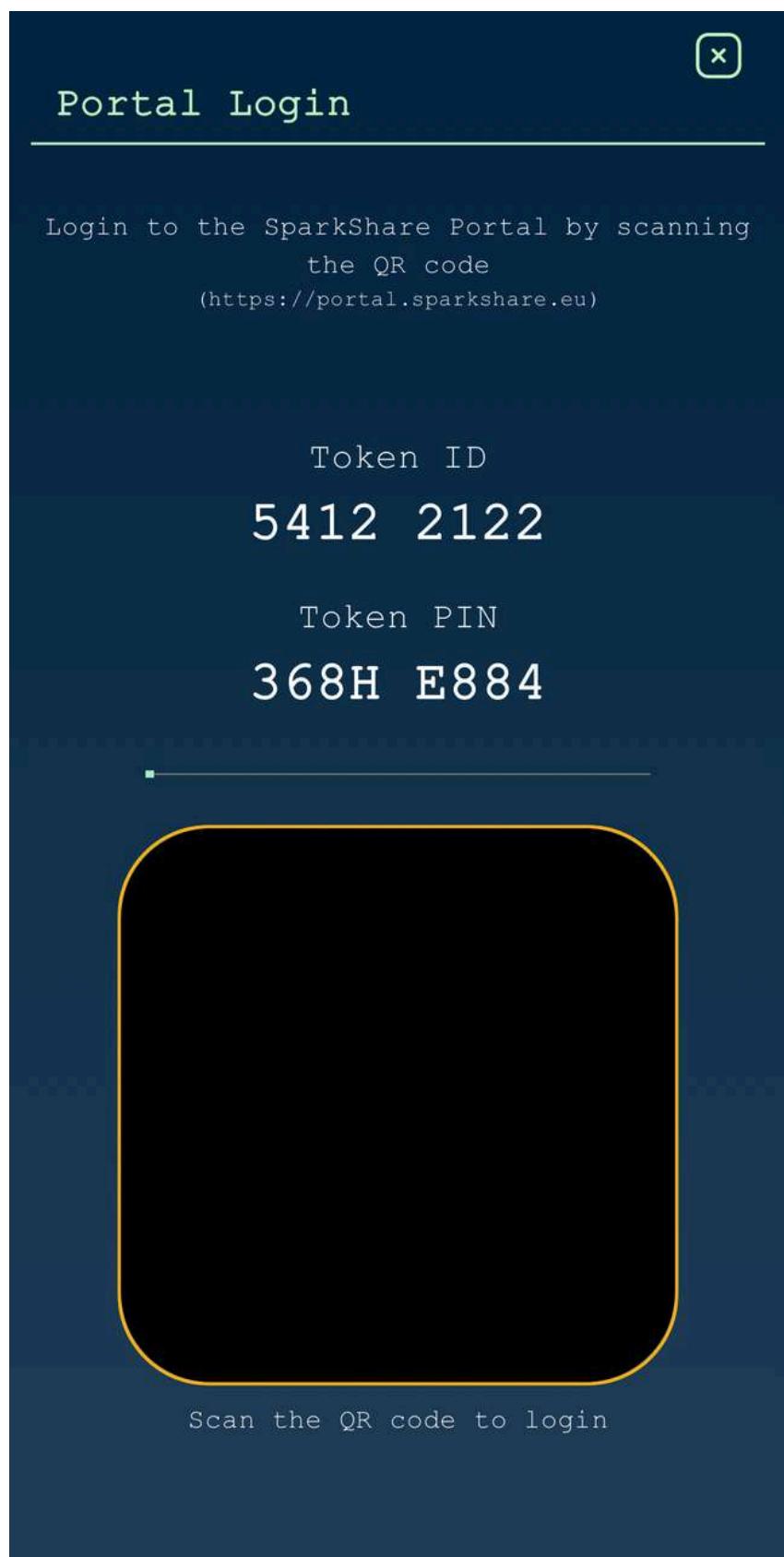


On the "Home Page", select "Profile"

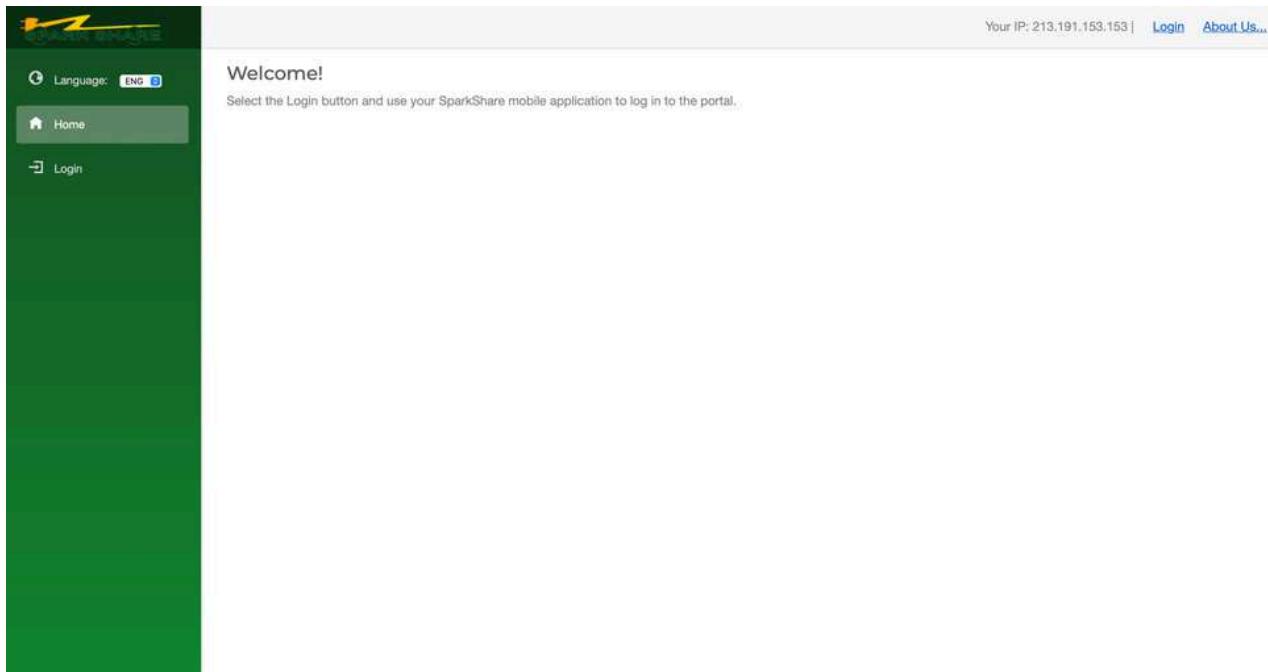


Select "Portal  
Login"

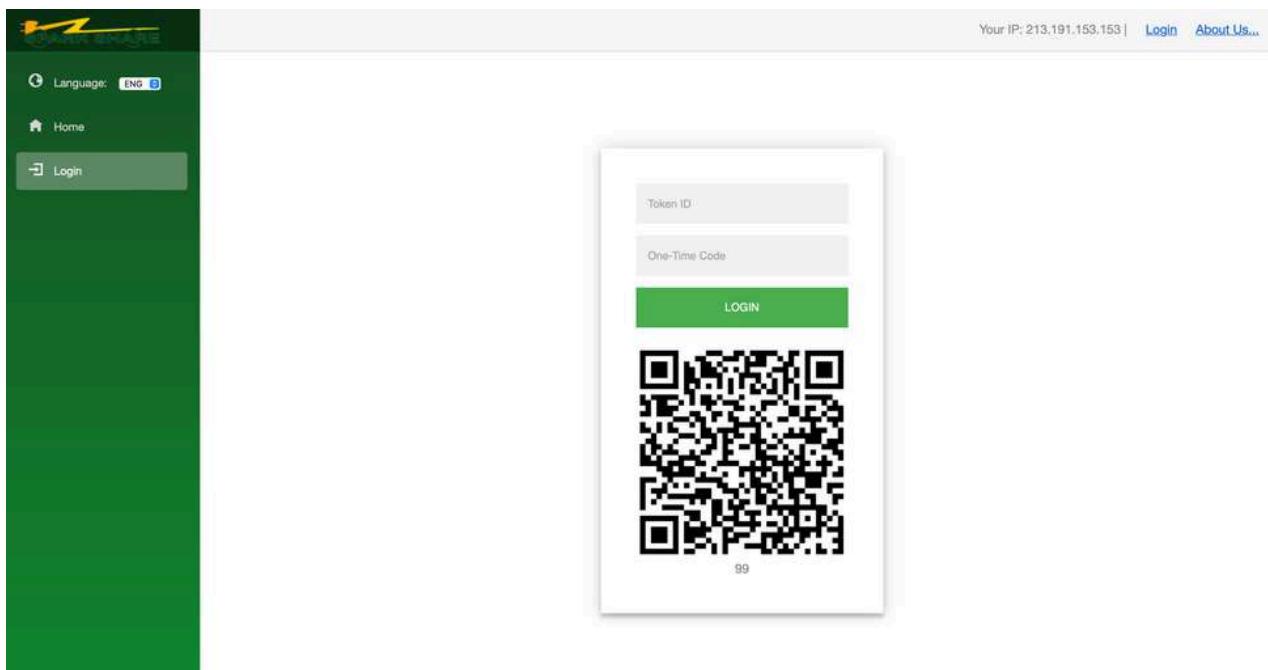
After selecting the "Portal Login" option, a window will open where you need to scan the QR code.



To find the QR code, visit the [SparkShare Portal](#) website (portal.sparkshare.eu).



On the homepage, select the "Login" option in the top right corner.



Scan the QR code using the mobile app.

# SPARKSHARE BOX

## DATA

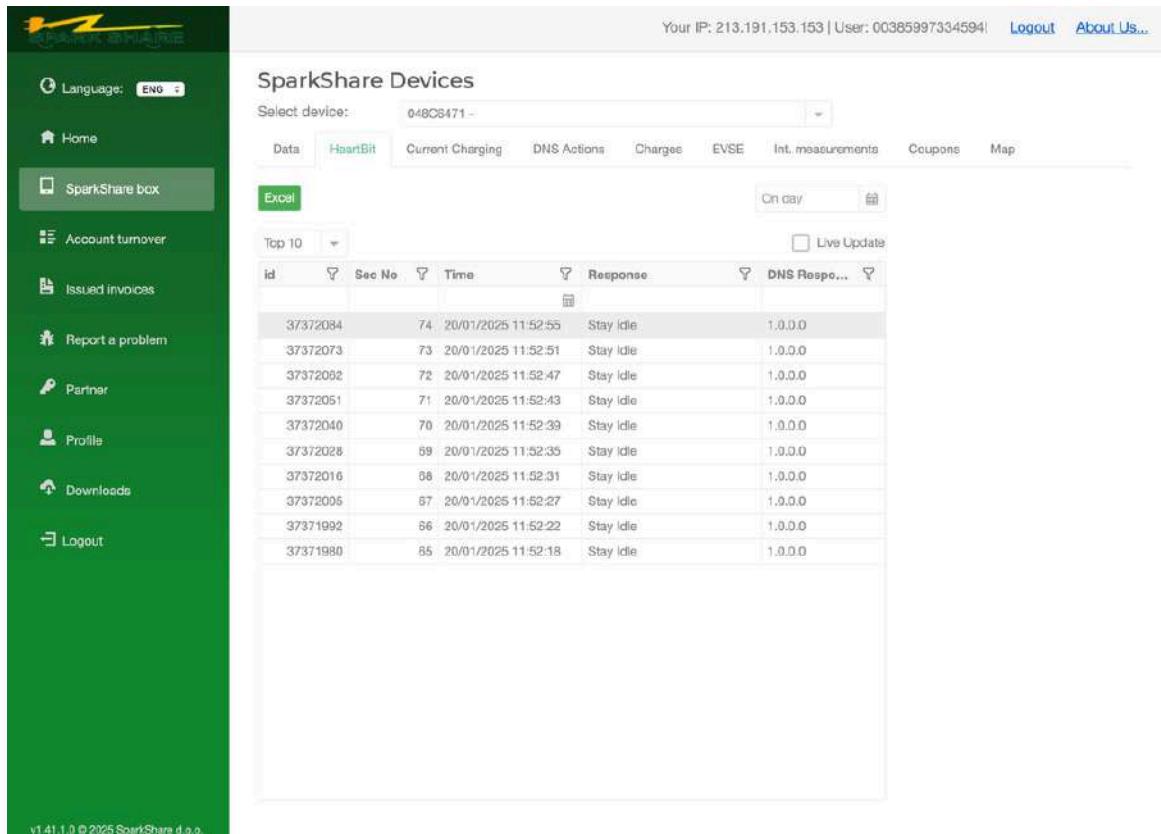
In this menu, you have a detailed overview and control over your charger, including options such as Reboot, managing the latest Firmware, and controlling the charging process itself. All relevant data about your charger is displayed here, but please note that data such as manufacturing information, the color of the decorative box, voltage calibration, and similar technical characteristics are not subject to change.

- **Reboot Button:** By selecting this option, you will restart your device. Use it with caution, as it is intended to resolve more serious technical issues. It is not recommended for minor problems, as unnecessary use may lead to data loss or system interruptions.
- **Download QR Button:** By clicking this option, the app will download the QR code of your charger to your device. The QR code is also visible to the right of the button, and you can print it out and place it on the SparkShare box. By scanning the QR code, you can easily start charging on your device.
- **Print QR Button:** By selecting this option, you can print the QR code of your charger on a template that includes instructions for downloading the app, adding funds, and starting a charging session. Below the QR code (on the portal page), there is a Start Charge Watermark option that allows further customization of the template — you can upload your own image to use as the background for the charger's QR template.
- **Edit Button:** By clicking this option, you can configure the charger's visibility on the map, location, connector type, description, working hours, additional services, and more.

Below these buttons are the device details, including the current version of the Firmware installed on the charger, as well as your device's RegID. This data provides a better overview of the device's status and helps maintain its functionality.

# HEARTBIT

This submenu allows for real-time monitoring of the device's communication with the cloud.



The screenshot shows a web-based monitoring interface for SparkShare devices. The left sidebar has a green header "SparkShare box" and includes links for "Account turnover", "Issued invoices", "Report a problem", "Partner", "Profile", "Downloads", and "Logout". The main content area has a header "SparkShare Devices" and a sub-header "Select device: 04808471 -". Below this are tabs: Data (selected), HeartBit (highlighted in green), Current Charging, DNS Actions, Charges, EVSE, Int. measurements, Coupons, and Map. A "Excel" button is also present. A "Live Update" checkbox is checked. The main table displays "Top 10" entries with columns: id, Sec No, Time, Response, and DNS Respo... (partially visible). The data in the table is as follows:

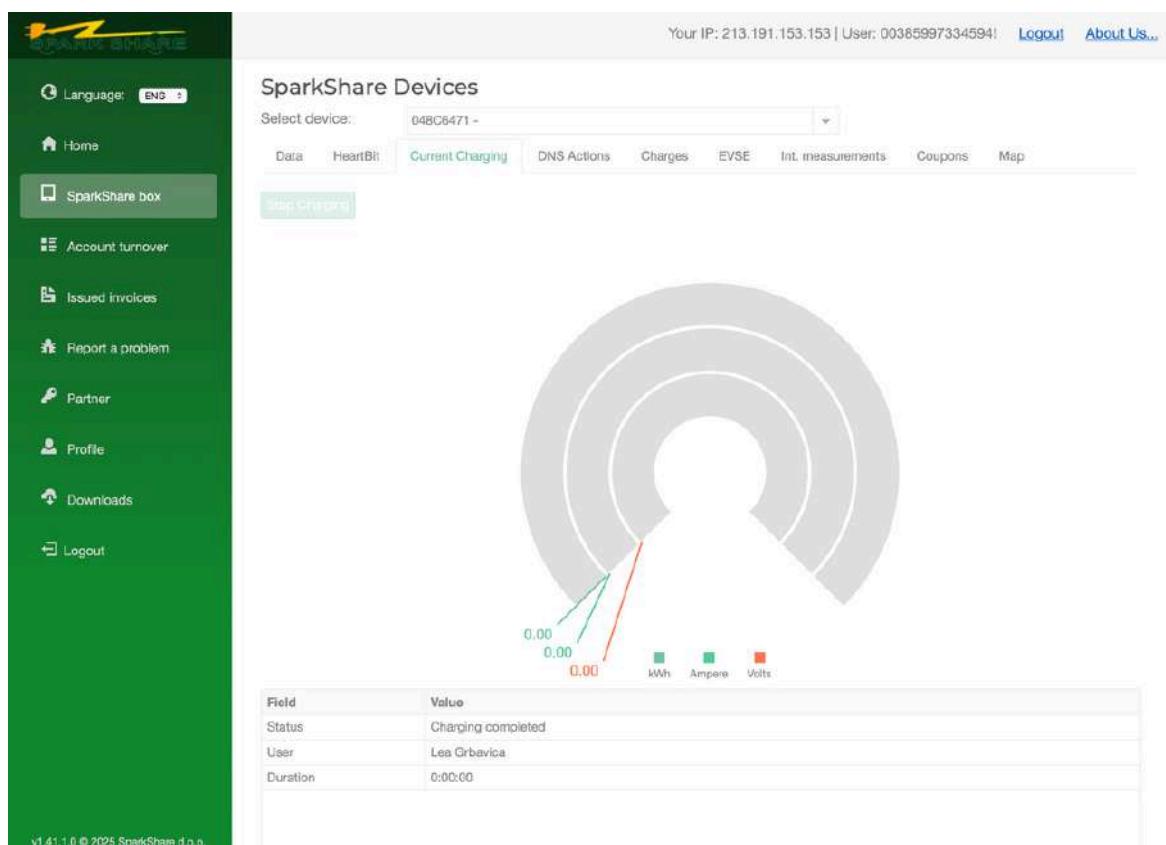
id	Sec No	Time	Response	DNS Respo...
37372084	74	20/01/2025 11:52:55	Stay Idle	1.0.0.0
37372073	73	20/01/2025 11:52:51	Stay Idle	1.0.0.0
37372092	72	20/01/2025 11:52:47	Stay Idle	1.0.0.0
37372051	71	20/01/2025 11:52:43	Stay Idle	1.0.0.0
37372040	70	20/01/2025 11:52:39	Stay Idle	1.0.0.0
37372028	59	20/01/2025 11:52:35	Stay Idle	1.0.0.0
37372016	58	20/01/2025 11:52:31	Stay Idle	1.0.0.0
37372005	57	20/01/2025 11:52:27	Stay Idle	1.0.0.0
37371992	56	20/01/2025 11:52:22	Stay Idle	1.0.0.0
37371980	55	20/01/2025 11:52:18	Stay Idle	1.0.0.0

## CURRENT CHARGING

This submenu allows you to monitor and control the current charging process on your device. It provides insight into key information such as the charging status, the user currently using your charger, and the start time and duration of the charging session.

Along with these basic data points, you can also see technical parameters such as the current voltage, current, power, and the amount of energy the device registers during charging.

In the Details section, additional information is available, including voltages and currents per phase, temperatures within the device, and voltage frequency. These details provide deeper insight into the technical aspects of our charger's operation and its condition during the charging process.



# DNS ACTIONS

When you log into the app, on your left side, we have the menus listed from top to bottom: Language, Home, SparkShare box, Account Traffic, Invoices Issued, Report a Problem, Profile, and Log Out.

The screenshot shows the 'SparkShare Devices' page. On the left, there's a sidebar with a green background containing links: Language (ENG), Home, SparkShare box (which is selected and highlighted in grey), Account turnover, Issued invoices, Report a problem, Partner, Profile, Downloads, and Logout. The main content area has a white background. At the top right, it says 'Your IP: 213.191.153.153 | User: 00385997334594! Logout About Us...'. Below that is a navigation bar with tabs: Data, HeartBit, Current Charging, DNS Actions (which is active and highlighted in green), Charges, EVSE, Int. measurements, Coupons, and Map. Under the DNS Actions tab, there's a 'Excel' button and a 'Live Update' checkbox. A 'Top 10' dropdown menu is open. The main part of the screen is a table with the following columns: id, RegID, Type, extID, Time, Status, and #. The table contains 10 rows of data, each with a small icon and a delete button in the last column.

id	RegID	Type	extID	Time	Status	#
2355	183	Configuration	10	18/02/2025 12:29:27	Unprocessed	
2354	183	Configuration	10	18/02/2025 12:25:00	Canceled	
2134	183	Configuration	10	05/02/2025 11:49:17	Canceled	
2133	183	Configuration	10	05/02/2025 11:47:45	Canceled	
2113	183	Charging	794	03/02/2025 10:22:39	Canceled	
2112	183	Charging	793	03/02/2025 10:16:34	Canceled	
1929	183	Configuration	10	16/01/2025 12:41:28	Processed	
1926	183	Charging	712	16/01/2025 12:41:26	Processed	
1927	183	Configuration	10	16/01/2025 12:40:52	Processed	
1926	183	Configuration	10	16/01/2025 12:39:33	Processed	

Example of a JSON string:

The screenshot shows the same 'SparkShare Devices' page as before, but with a modal window overlaid. The modal has a title 'JSON: 4670227'. Inside, there are two sections: 'REQUEST' and 'RESPONSE'. The REQUEST section contains the following JSON:

```
REQUEST: [IP: 213.191.153.153; time: 16.01.2025 12:41:43.288]
{
  "regId": 183,
  "nonce": "20250116114341807",
  "signature": "73xe0e1426CJTU3a+VBNzdf+OCYF@Xv+4DFHApMsIs2soIel8In/34TCfKJeq"
}
```

The RESPONSE section contains the following JSON:

```
RESPONSE: [IP: 213.191.153.153; time: 16/01/2025 12:41:43]
{
  "nonce": "20250116114341807",
  "signature": "W7gm/vubso1gg67mkEAjB2yf18HExlyntn1Gqa4",
  "config": {
    "dnsstick": 4000,
    "chargestick": 3000,
    "rfid": 0,
    "kalibracija": {
      "nspom": 1.0,
      "struja": 1.8
    },
    "use": {
      "pwm": 10,
      "charger": 1
    },
    "ledcolors": {
      "Green": 65280,
      "Red": 255,
      "Blue": 16711680,
      "Yellow": 4194383,
      "CarConnected": 65280
    }
  },
  "ErrorCode": 0,
  "ErrorMsg": "Sve OK"
}
```

# CHARGES

The Charges submenu provides an overview of all the charging sessions that have taken place on your charger.

ID	RegID	Session	Person	Req sTime	fTime
794	183	53A4A4D7-36BE-43E9-B08B-F2A5AC07FB2E	Lee Grbavica	03/02/2025 10:22:3	
793	183	ED44C007-9552-4DDD-93F3-48E0316A3ABS	Lee Grbavica	03/02/2025 10:16:3	
712	183	6BCCBC3A-F722-4021-B804-31BD2D39E16A	Karlo Kosina	16/01/2025 12:41:2	
711	183	BE5CCE0C-1FEF-4BD7-8611-8E5FEB1B060C	Karlo Kosina	16/01/2025 12:39:1	

Each charging session has its unique Session ID, and in the Person field, you can see which user used the charger.

The Req sTime field shows the time when the request was sent from the device to the server, sTime indicates when the action started, and fTime shows when the request was completed. While the EV is charging at the charger and the Live Update button is enabled, the time in the last field continuously updates.

## **EVSE**

The EVSE option in the SparkShare system allows users to view the BoxEV for electric vehicle charging (EVSE - Electric Vehicle Supply Equipment). This section provides detailed information about charging requests, the status of the BoxEV, and key electrical parameters.

### Data Overview

The following data is available in the tabular view:

- ID – unique identifier of the record.
- Request time (Req. time) – the time when the charging request was recorded.
- RegID – the identification number of the BoxEV.
- Status – the current status of the BoxEV (e.g., "no car" if the vehicle is not connected).
- ADC min, ADC max, ADC avg – the minimum, maximum, and average values of ADC (Analog-to-Digital Converter) signals, which help monitor voltage and current during charging.
- ADC points – the number of collected ADC data points for analysis.
- Session – the identifier for the charging session.

### Key Features

- Live Update – enables real-time status monitoring.
- Data Export – the Excel option allows for downloading data for further analysis.
- Filtering and Sorting – users can filter data based on various parameters for easier viewing.

This option allows for monitoring the operation of the BoxEV, identifying issues, and analyzing performance, thereby optimizing the operation of electric vehicle charging infrastructure.



Language: ENG 

[Home](#)

[SparkShare box](#)

[Account turnover](#)

[Issued invoices](#)

[Report a problem](#)

[Partner](#)

[Profile](#)

[Downloads](#)

[Logout](#)

v1.41.1.0 © 2025 SparkShare d.o.o.

## SparkShare Devices

Select device: 048C5471 -

Your IP: 213.191.153.153 | User: 00385997334594! [Logout](#) [About Us...](#)

Data HeartBit Current Charging DNS Actions Charges EVSE Int. measurements Coupons Map

Excel

On day 

Live Update

Top 10									
ID	Req. time	RegID	Status	ADC min	ADC max	ADC avg	ADC points	Session	#
181515	05/11/2024 14:54:32	183	0 - No Car	3332	3362	3346	164		
181508	05/11/2024 14:48:32	183	0 - No Car	3337	3366	3353	118		
181501	05/11/2024 14:42:31	183	0 - No Car	3331	3365	3350	129		
181494	05/11/2024 14:36:31	183	0 - No Car	3337	3362	3349	113		
181487	05/11/2024 14:30:32	183	0 - No Car	3342	3362	3353	117		
181480	05/11/2024 14:24:32	183	0 - No Car	3342	3362	3350	129		
181473	05/11/2024 14:18:31	183	0 - No Car	3334	3361	3350	106		
181466	05/11/2024 14:12:31	183	0 - No Car	3335	3366	3350	124		
181459	05/11/2024 14:06:31	183	0 - No Car	3342	3367	3352	106		
181452	05/11/2024 14:00:32	183	0 - No Car	3337	3361	3351	111		

## INT.MEASUREMENTS

The Internal Measurements option in the SparkShare system allows users to view key electrical parameters of the device in real-time. This functionality is particularly useful for monitoring the performance and stability of the device's operation.

### Data Overview

Within this section, the following values are displayed:

- Time – the exact date and time of the measurement.
- Voltage – voltage values for three phases (U1, U2, U3).
- Current – current values for three phases (I1, I2, I3).
- Total Energy – energy consumed in the units used by the system.
- Temperature – the current device temperature.
- Frequency – the frequency of the electrical network.
- EVSE – the identification number of the charging station.
- Device Memory (Memory heap) – the status of the device's working memory.
- WiFi – information about the device's network connection, including network name (SSID) and signal strength (RSSI).

### Key Features

- Live Update – enables real-time data display.
- Data Export – the Excel option allows for downloading data in Excel format for further analysis.
- Filtering and Sorting – it is possible to filter data based on various criteria.

This option provides detailed insight into the operational status of the device, enabling the timely detection of issues and optimization of system performance.

**SPARKSHARE**

Language: ENG

[Home](#)

[SparkShare box](#)

[Account turnover](#)

[Issued invoices](#)

[Report a problem](#)

[Partner](#)

[Profile](#)

[Downloads](#)

[Logout](#)

Your IP: 213.191.153.153 | User: 00385997334594 | [Logout](#) [About Us...](#)

## SparkShare Devices

Select device: 048C6471 -

Data HeartBit Current Charging DNS Actions Charges EVSE Int. measurements Coupons Map

[Excel](#)

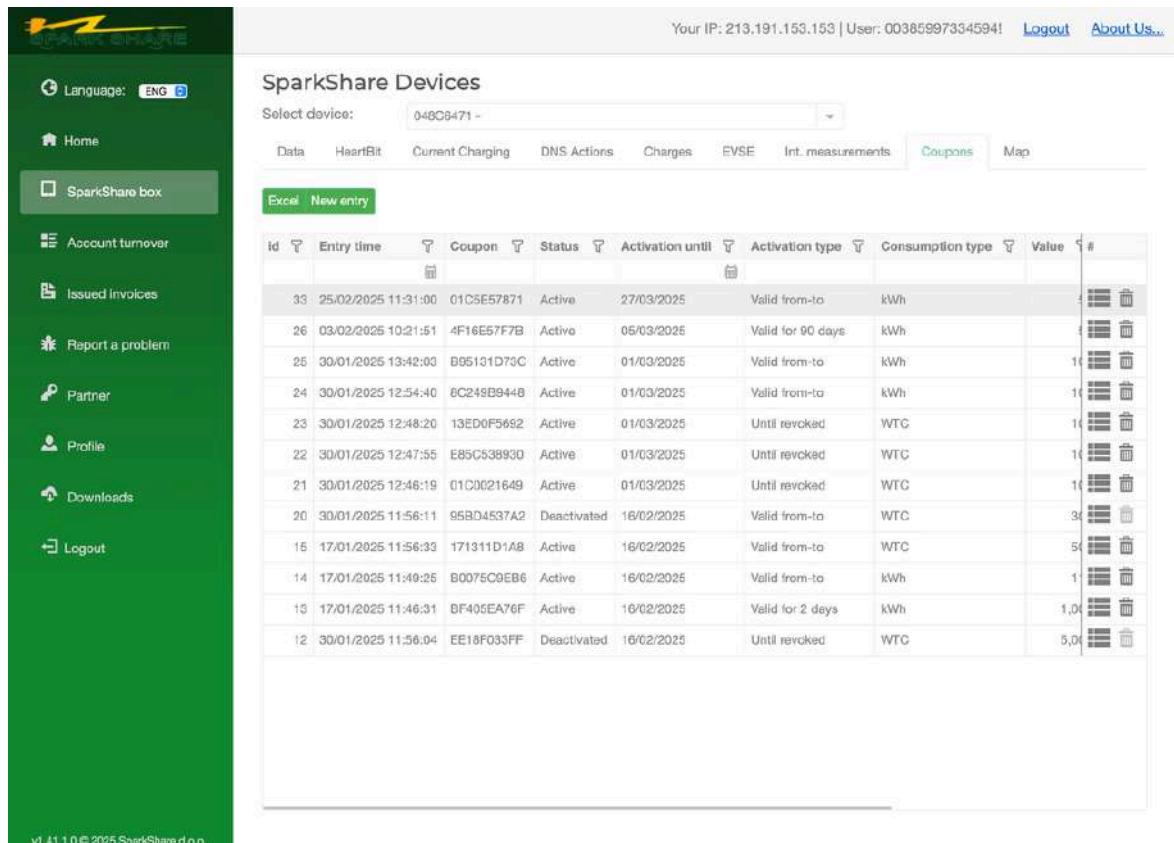
On day

Live update

Top 10		Voltage										Current				Total E.	Temp.	Freq.	EVSE	Mem
id	Vrijeme	U1	U2	U3	I1	I2	I3	Total E.	Temp.	Freq.	EVSE	Mem	Current							
7105845	20/01/2025 11:52:53	242.34	0.14	0.06	0.03	0.01	0.01	4	26.00	50.00	3342	907								
7105835	20/01/2025 11:52:42	242.10	0.14	0.06	0.03	0.01	0.01	4	26.00	50.00	3344	907								
7105825	20/01/2025 11:52:32	242.38	0.14	0.06	0.03	0.01	0.01	4	26.00	50.00	3344	907								
7105815	20/01/2025 11:52:22	242.41	0.14	0.06	0.03	0.01	0.01	4	25.00	50.00	3342	907								
7105805	20/01/2025 11:52:12	242.55	0.14	0.06	0.03	0.01	0.01	4	25.00	50.00	3342	907								
7105795	20/01/2025 11:52:02	242.86	0.14	0.06	0.03	0.01	0.01	4	25.00	50.00	3343	907								
7105785	20/01/2025 11:51:52	242.96	0.14	0.06	0.03	0.01	0.01	3	25.00	50.00	3342	907								
7105775	20/01/2025 11:51:42	242.53	0.14	0.06	0.03	0.01	0.01	3	25.00	50.00	3344	907								
7105765	20/01/2025 11:51:32	242.62	0.14	0.06	0.03	0.01	0.01	3	25.00	50.00	3343	907								
7105755	20/01/2025 11:51:21	242.29	0.14	0.06	0.03	0.01	0.01	3	25.00	49.00	3341	907								

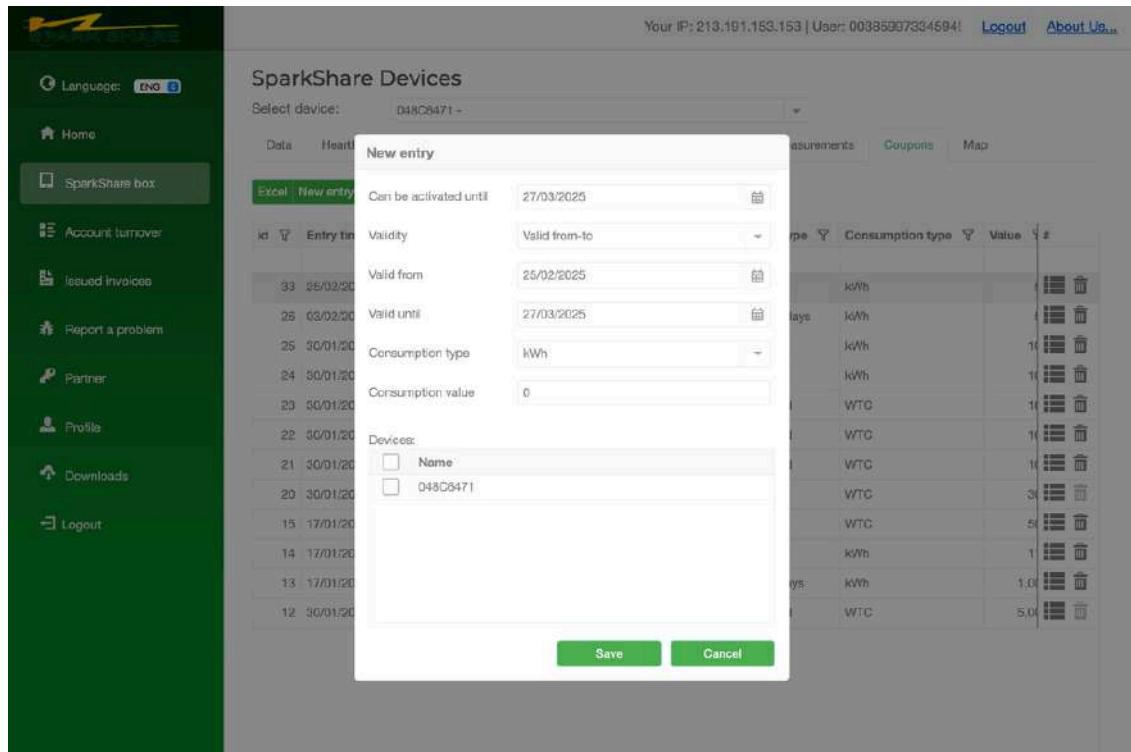
# COUPONS

If you want to provide someone with free charging or charging at a discounted price, you can do so through a coupon.



The screenshot shows the SparkShare Devices interface. On the left is a dark sidebar with various menu items: Language (ENG), Home, SparkShare box, Account turnover, Issued invoices, Report a problem, Partner, Profile, Downloads, and Logout. The main area has tabs: Data, HeartBit, Current Charging, DNS Actions, Charges, EVSE, Int. measurements, Coupons (which is highlighted in green), and Map. Below the tabs is a table titled "SparkShare Devices" with a "Select device:" dropdown set to "048C6471". The table has columns: Id, Entry time, Coupon, Status, Activation until, Activation type, Consumption type, Value, and a delete icon column. The table contains 15 rows of coupon data. At the bottom of the main area is a footer with the text "v1.41.1 © 2025 SparkShare d.o.o."

By selecting the "New Entry" button, a window will open where you can choose the period and value for which you want to issue the coupon, as well as the device for which it is issued.



The screenshot shows the "New entry" dialog box overlaid on the SparkShare Devices interface. The dialog has fields for "Can be activated until" (set to 27/03/2025), "Validity" (set to Valid from-to), "Valid from" (set to 26/02/2025), "Valid until" (set to 27/03/2025), "Consumption type" (set to kWh), "Consumption value" (set to 0), and a "Devices" section with checkboxes for "Name" and "048C6471". At the bottom are "Save" and "Cancel" buttons. The background shows the same table of coupons as the previous screenshot.

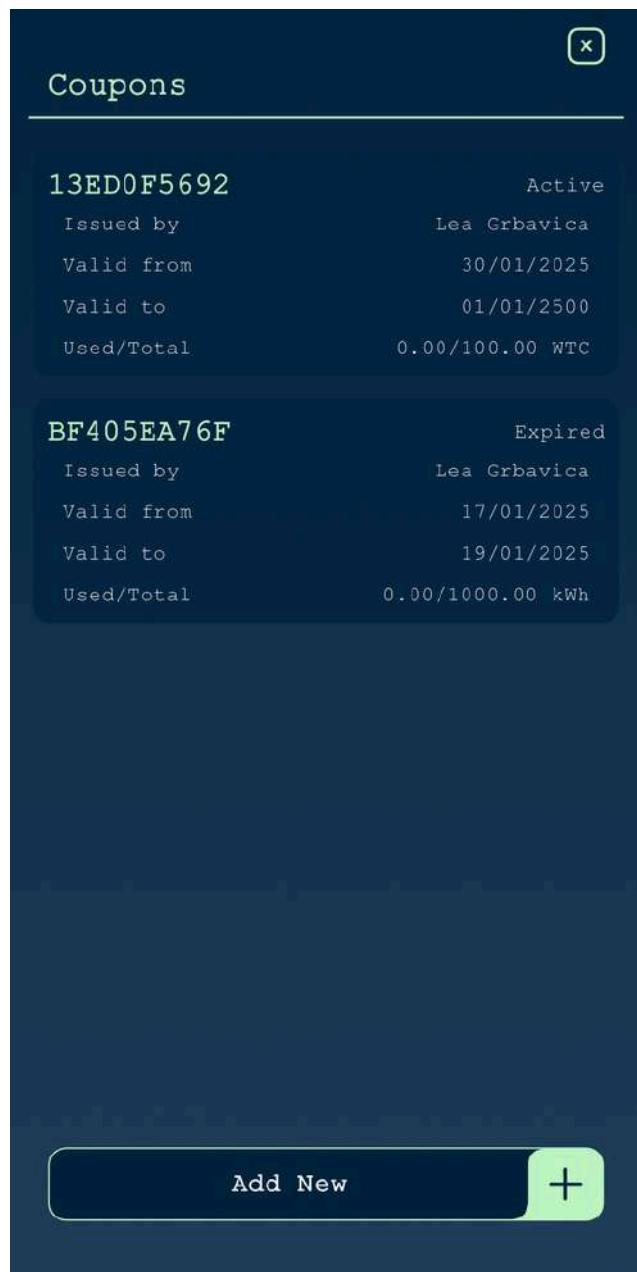
After entering the required information and selecting “Save,” the coupon can be sent via email or SMS, as well as printed.

The screenshot shows the SparkShare Devices software interface. On the left is a dark sidebar with various icons and links: Language (ENG), Home, SparkShare box, Account turnover, Sell WTC, Issued invoices (with a red notification badge), Report a problem, Partner, Profile, and Logout. The main area is titled "SparkShare Devices" and shows a table of "Coupons". A new entry is being created with the following details:

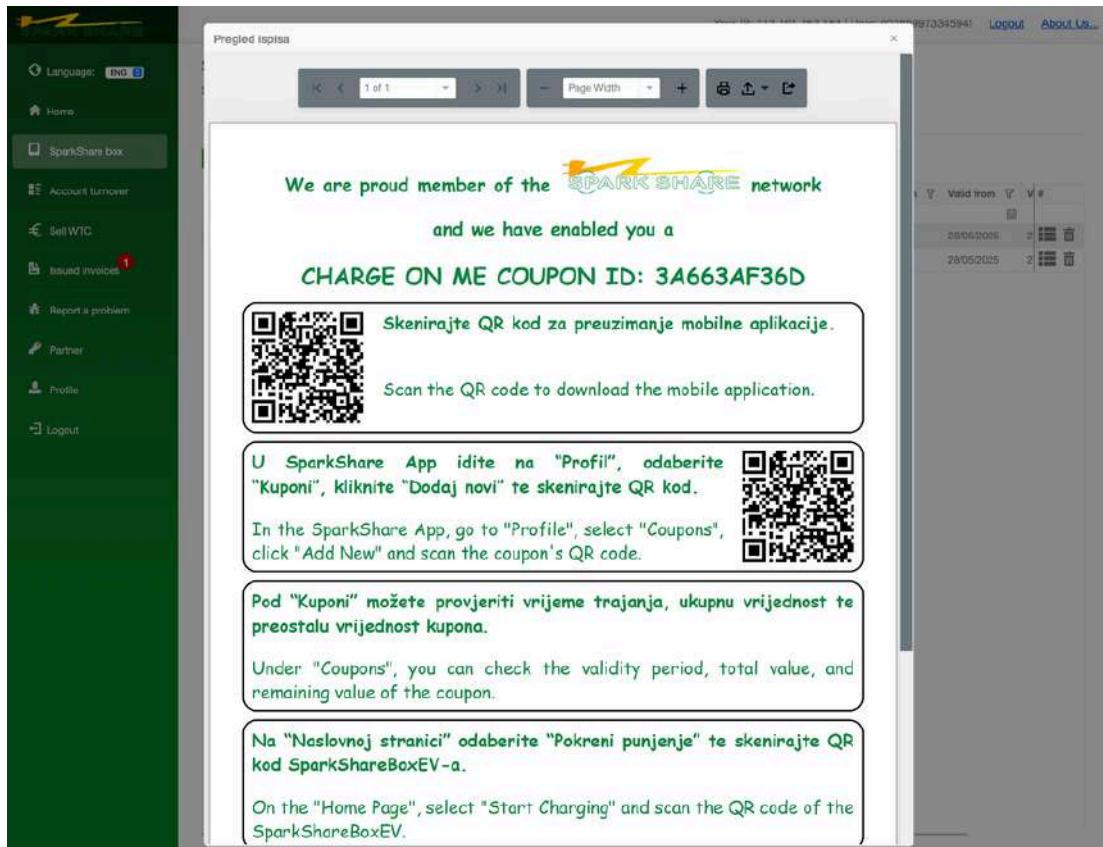
ID	Entry time	Coupon	Status	Activation until	Activation type	Consumption type	Value	Activated on	Valid from	V#
4	28/05/2025 11:01:09	1DCAZ...		27/06/2025			20		28/05/2025	

Below the table, a modal dialog titled "Sending coupon" asks "Do you want to send the coupon or print it?". It contains four buttons: Email (green), SMS (green), Print (green), and Cancel (gray). At the bottom of the main screen, there are "Save" and "Cancel" buttons.

The person you are sending the coupon to must have the SparkShare mobile app. They will receive a notification about the coupon via email/SMS, depending on your selection, and the coupon will be visible and active in the mobile app under the "Coupons" option.



If you choose to print the coupon, it will be printed on a template that includes step-by-step instructions for activating and using the coupon.



# MAP

The map displays all your activated devices that have a visible location.

The "Map" and "Satellite" views are available.

Your IP: 213.191.153.153 | User: 00385997334594! [Logout](#) [About Us...](#)

**SparkShare Devices**

Select device: 04BC6471 -

Data HeartBit Current Charging DNS Actions Charges EVSE Int. measurements Coupons **Map**

**Map** **Satellite**

v1.41.1.0 © 2025 SparkShare d.o.o.

# ACCOUNT TRANSACTIONS

In the account transactions menu, you can review, export to XML, Excel, and print the transactions of your account in WTCs. If you have multiple accounts for which you are authorized, you can select the desired account for review from the dropdown menu. The available balance shows the current balance of your account. You can select the transaction review period by clicking on the dates in the From Date and To Date fields.

If you wish to export data, the app offers export options in Excel format.

The screenshot shows the 'Account Transactions' page of a web application. On the left is a sidebar with navigation links: Language (English), Home, SparkShare box, Account turnover (highlighted in green), Issued invoices, Report a problem, Profile, and Logout. The main content area has a header 'Account Transactions' and a sub-header 'Select account: 121000002164 [Laa Grtaavna] - Račun za WTC'. It displays 'Available balance: 5,10 WTD'. Below this is a table with columns: WTC Balance, Amount, WTC, Amount kW, DevUID, Description, Time, ID, and TransID. Two rows of data are shown:

WTC Balance	Amount	WTC	Amount kW	DevUID	Description	Time	ID	TransID
5,10	0,10	-0,10	04/006471	@ Orijak, Starika,Vnus 7	20/10/2024 12:06:00	41001430	41001430	
5,00				SparkShares d.o.o. © Welcome to SparkShares	21/10/2024 14:04:17	41001352	41001351	

At the bottom of the table, it says 'SparkShares d.o.o. © Welcome to SparkShares'.

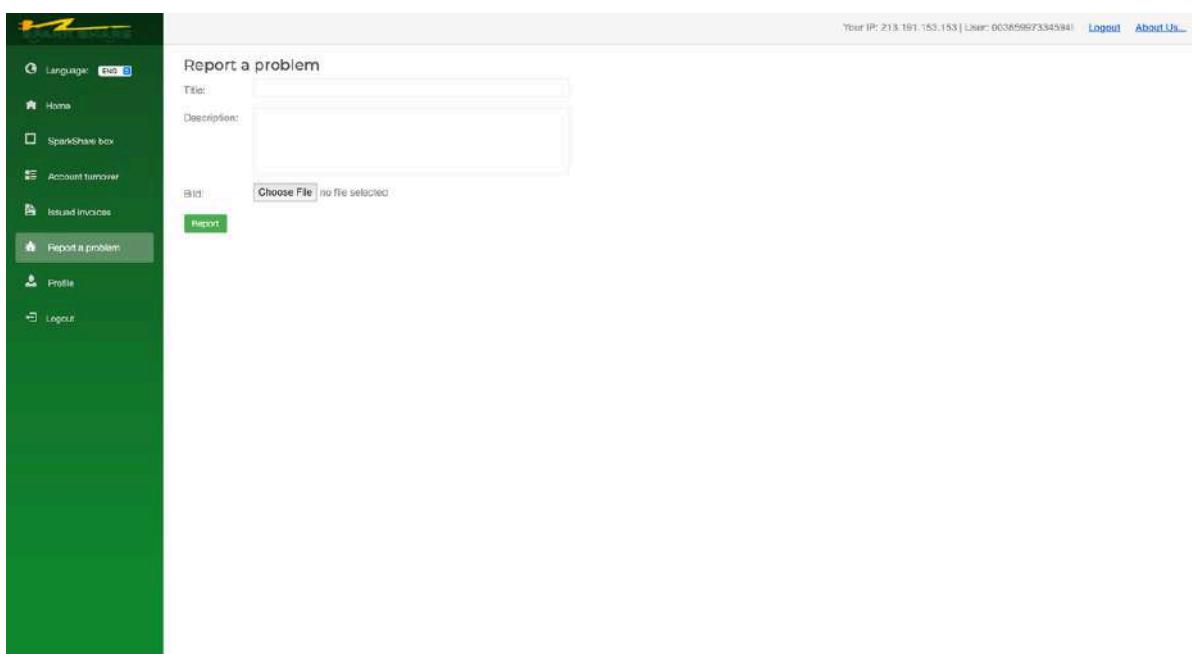
# ISSUED INVOICES

In the Issued Invoices menu, you can review all invoices that have been issued related to your account. This view provides you with a detailed insight into all transactions and charges associated with your user account, including the issuance date, amount, and other relevant invoice details.

The screenshot shows a web application interface for managing invoices. On the left is a dark green sidebar with various menu items: Language (set to English), Home, SparkShare box, Account turnover, **Issued Invoices** (which is highlighted in grey), Report a problem, Profile, and Logout. The main content area has a white header with the title "Invoices" and filters for "From Date: 01/01/2024" and "To Date: 03/12/2024". Below the header is a table titled "Select Invoice:" with columns for "Invoice No.", "Date", "Due Date", "Customer Name", "VAT No.", "Contract", and "Amount". The table body is currently empty, showing only the column headers.

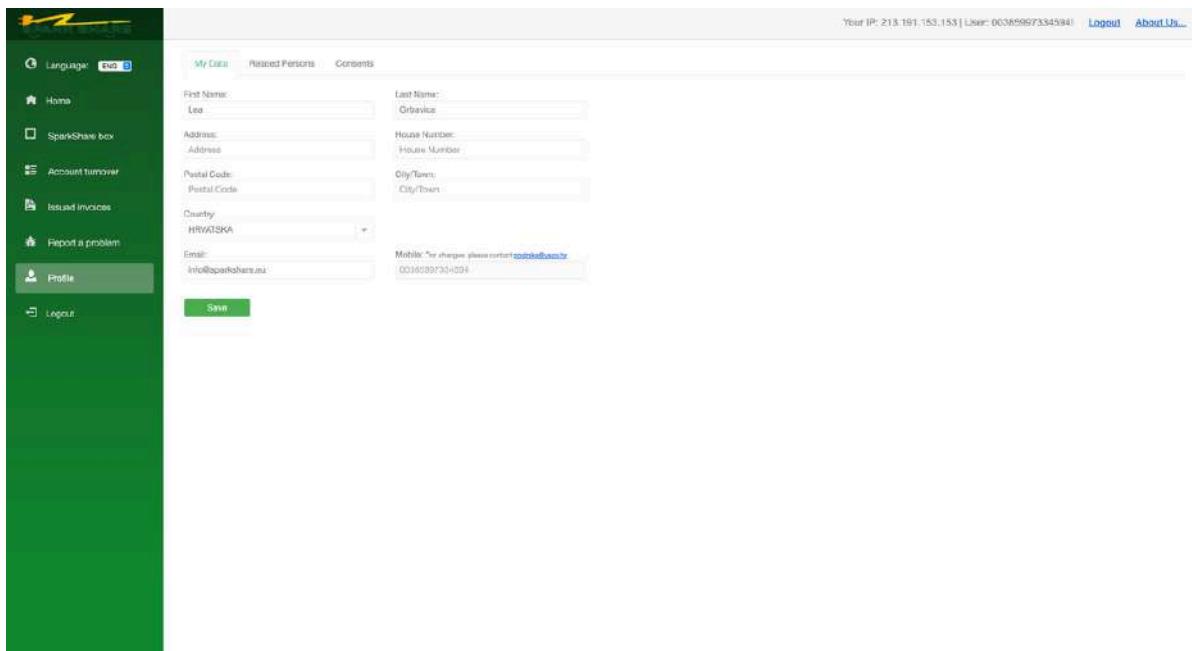
# REPORT A PROBLEM

In this menu, you can report a problem with your device. Our team of experts will receive your report and process it as quickly as possible, and you can expect a response via email. Please summarize the problem in the subject line of the report, while providing detailed information about the situation in the description. To ensure a more accurate resolution of the issue, you also have the option to upload a screenshot of the problem or a photo of the device within the app. Detailed diagnostics available through the SS Portal allow for the use of specific data when reporting.



# PROFILE

In the Profile menu, users can view and edit their personal information. Additionally, a list of individuals associated with your user account is available. If you wish to change your mobile number, you need to contact our support team via email at [info@sparkshare.eu](mailto:info@sparkshare.eu)



The screenshot shows the 'My Data' tab of the SparkShare profile editing interface. The left sidebar includes links for Language (set to English), Home, SparkShare box, Account turnover, Issued invoices, Report a problem, Profile (which is the active tab), and Logout. The main content area has tabs for My Data, Related Persons, and Consents. Under 'My Data', there are fields for First Name (Lee), Last Name (Oršenik), Address (Address), House Number (House Number), Postal Code (Postal Code), City/Town (City/Town), Country (Country - set to HRVATSKA), Email (info@sparkshare.eu), and Mobile (Mobile: \*or change please contact [info@sparkshare.eu](mailto:info@sparkshare.eu) 0316589735+094). A green 'Save' button is at the bottom.

# **SYSTEM USAGE AND SECURITY MEASURES**

Sparkshare Ltd. will disable any unauthorized use of the application by blocking the user's IP address. The company reserves the right to deny access to the application to users for whom there is reasonable suspicion of unauthorized use. All activities within the application are logged in an action log, which allows for tracking every action in the system. To prevent unauthorized use, Sparkshare Ltd. reserves the right to verify all recorded actions within the application at any time.

## **PROTECTION OF PERSONAL DATA**

The collected personal data will be used in accordance with the Personal Data Protection Policy of Sparkshare Ltd.