

# NEO

Datasheet – PREMIUM SMART CHARGING



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## 1. General

### Charging connector

IEC 62196 Type 2 cable 5m,  
Type 2 socket,  
Type 2 socket with shutter

### Authentication methods

Plug & Charge  
RFID  
RAEDIAN APP via BLE  
OCPP Backend

### HMI & indication

Dual LED stripes

### Display

OLED display with status indicator  
and metering information

### Nominal output voltage

Single phase: 230VAC ± 20%  
Three phase: 230/400VAC ± 20%

### Maximum output power

Single phase up to 7.4kW.  
Three phase up to 22kW with  
downgrade compatibility

### Earthing system

TN/TT/IT

### Protection

UVP, OVP, OCP, Relay Stuck, Over  
Temperature

### Residual current protection

At least Type A RCD upstream +  
Integrated 6mA DC per IEC 62955

### Nominal frequency

50/60Hz

### Metering accuracy

Calibrated ± 1% Accuracy

## 2. Connectivity

### Vehicle communication

Mode 3 in accordance with  
IEC 61851-1 ed. 3 (2017)

### RFID authentication

ISO/IEC 14443A/B, 13.56 MHz  
Maximum length: 7 bytes

### Connectivity to backend

Wi-Fi: 2.4GHz, 802.11 b/g/n  
4G: LTE CAT I, LTE-FDD:  
B1/3/5/7/8/20/28

### Backend protocol

OCPP 1.6(JSON) 2nd edition

### Connectivity to EMS/Meter

Modbus RTU via RS-485

### Connectivity to smart phone

Bluetooth

### SIM card

Two SIM options:

- User SIM: Nano SIM, Settable APN  
user name and password
- eSIM: Integrated, activated by  
Lifetime Connectivity Key

## 3. Load Management Options

- Direct connection to CT Clamp for Dynamic Load Balancing;
- Connect to SC Kit for Dynamic Load Balancing and Solar Charging;
- Connect to external EMS as Modbus RTU secondary via RS-485;
- OCPP backend load management;
- Static load management setting in RAEDIAN APP, RAEDIAN Install APP.

## 4. Operating Conditions

### Operating temperature

-30 ~ 55°C with derating  
mechanism

### Relative humidity

5% ~ 95%

### Electrical safety class

Class I

### Degree of protection (housing)

Charging core: IP55  
Between charging core and  
backplate: IP54

### IK protection (mechanical impact)

IK10

### Operating altitude

3000m

### Standby power

3.86W

### Environmental conditions

Indoor / outdoor use

### EMC Environmental conditions

Class B residential according to  
IEC 61851-21-2

## 5. Mechanical

### Mounting options

Wall mounted  
Pedestal

### Material

Polycarbonate, UV resistant and flame retardant, UL94 5VA

### Casing (exterior) dimensions (H x W x D)

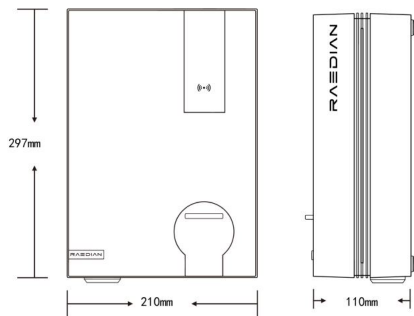
297 x 210 x 110 mm

### Packaging dimensions (H x W x D)

450 x 360 x 230 mm (socket variant)  
490 x 650 x 230 mm (cable variant)

### Weight

4.3 - 7.2 kg



## 6. Compliance

### Safety

EN 61851-1, EN 62955, EN 62196,  
EN 61439

### EMC

EN 61851-21-2:2021  
EN 301489-1 V2.2.3:2019  
EN 301489-3 V2.3.2:2023  
EN 301489-17 V3.2.5:2022  
EN 301489-52 V1.2.1:2021

### RED

EN 300328 V2.2.2:2019  
EN 300330 V2.1.1:2017  
EN 301908-1 V15.1.1:2021  
EN 301908-13 V13.2.1:2022

### Health

EN 62311:2008  
EN 50663:2017  
EN 61000-6-2:2016  
EN 61000-6-3:2006

### RoHS

Directive 2011/65/EU & (EU)2015/863  
Annex II



**NEO**

Rev 1.0 - 2024

## Available Colors

- Metallic Silver
- Space Grey
- Lunar Light
- Passion Red



## Product Variants

### WIFI + BLE

Model	Part no.	Description
<input type="checkbox"/> NEO 7-T5-S-0000	9100000001113	7kW, Cable 5m, WiFi, BLE, RFID, OLED, CT, Silver
<input type="checkbox"/> NEO 7-S-S-0000	9100000001213	7kW, Socket, WiFi, BLE, RFID, OLED, CT, Silver
<input type="checkbox"/> NEO 7-SS-S-0000	9100000001313	7kW, Socket with shutter, WiFi, BLE, RFID, OLED, CT, Silver
<input type="checkbox"/> NEO 11-T5-S-0000	9100000001123	11kW, Cable 5m, WiFi, BLE, RFID, OLED, CT, Silver
<input type="checkbox"/> NEO 22-T5-S-0000	9100000001133	22kW, 5m cable,WiFi, BLE, RFID, OLED, CT, Silver

### 4G with User SIM / eSIM

Model	Part no.	Description
NEO 7-T5-ES-S-0000	9100000003113	7kW, cable 5m, WiFi, BLE, RFID, OLED, CT, 4G with USIM/eSIM, Silver
NEO 7-S-ES-S-0000	9100000003213	7kW, Socket, WiFi, BLE, RFID, OLED, CT, 4G with USIM/eSIM, Silver
<input type="checkbox"/> NEO 7-SS-ES-S-0000	9100000003313	7kW, Socket with shutter, WiFi, BLE, RFID, OLED, CT, 4G with USIM/eSIM, Silver
NEO 11-T5-ES-S-0000	9100000003123	11kW, cable 5m, WiFi, BLE, RFID, OLED, CT, 4G with USIM/eSIM, Silver
NEO 22-T5-ES-S-0000	9100000003133	22kW, cable 5m, WiFi, BLE, RFID, OLED, CT, 4G with USIM/eSIM, Silver

## NEO

Rev 1.0 - 2024

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## REMARK

1. All models listed are standard products. If you need products in other colors besides silver or have any customization needs, please feel free to contact RAEDIAN distributors or resellers.
2. The models marked with "☒" are in stock in EU. For further information like MOQ or other details, please feel free to contact RAEDIAN distributors or resellers.



## Accessories



### Pedestal

For charging station mounting

Pedestal with roof, double side installation, cable hook

- Dimension(HxWxD): 1,600 x 300 x 200 mm
- Color: Black
- Packaging(HxWxD): 1,610 x 360 x 210 mm
- Weight: 11.6 kg
- Material: Aluminium Alloy

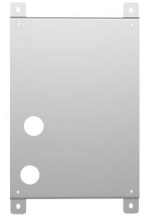
Part no. 9006000000111

### Multi Color



Multi color housing, front cover and backplate

- Space Grey Part no. 9028000000001
- Lunar Light Part no. 9028000000002
- Passion Red Part no. 9028000000006



### Wall Bracket

Safe and secure installation on uneven surfaces

- Dimension(HxWxD): 338 x 205 x 11.5 mm
- Material: SPCC
- Weight: 0.82 kg

Part no. 9007000000001



### RFID Card

5\*RFID: RFID Card, Home, 5 Cards

Part no. 9003000000001



### SC Kit

Solar Charging kit for NEO 1ph  
1P Meter Unit, 1 CT Clamp,  
80A, 1:3000

Part no. 9027000000011

Solar Charging Kit for NEO 3ph  
3P Meter Unit, 3 CT Clamps,  
80A, 1:3000

Part no. 9027000000032



### Cable Hook

Convenient for keeping your charging cable organized

- Color: Black
- Weight: 0.106 kg

Part no. 9005000000001



### CT Clamp

CT clamp, 100A, 1:1000, 1m  
twisted pair cable

Part no. 9000000000001

CT clamp, 50A, 1:1000, 1m  
twisted pair cable

Part no. 9000000000002



### Charging Cable

T2 to T2, 5m, 1-phase, up to 32A(7kW)

Part no. 9022000001111

T2 to T2, 7.5m, 1-phase, up to 32A(7kW)

Part no. 9022000001211

T2 to T2, 5m, 3-phases, up to 32A(22kW)

Part no. 9022000003111

T2 to T2, 7.5m, 3-phases, up to 32A(22kW)

Part no. 9022000003211

T2 to T1, 5m, 1-phase, up to 32A(7kW)

Part no. 9022000001112