

NEO PLUS

Datasheet – PREMIUM SMART CHARGING



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1. General

Charging connector

IEC 62196 Type 2 cable 7.5m,
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 \pm 20%
Three phase: 230/400VAC \pm 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

MID Certified Class B
 \pm 1% Accuracy
Electrical Pulse output:
1000 imp/kWh
0.25-5(32)A
(11/22kW variants apply)

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)

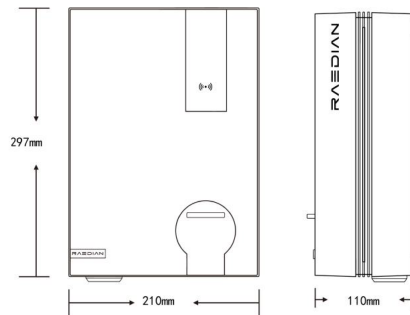
297 x 210 x 110 mm

Packaging dimensions (H x W x D)

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

Weight

4.7 - 8.5 kg



7. 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

MID

EN 50470-3
EN 62053-23



NEO PLUS

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-T7.5-S-0000	9100000001413	7kW, Cable 7.5m, WiFi, BLE, RFID, OLED, CT, Silver
<input type="checkbox"/> NEO 11-T7.5-S-0000	9100000001423	11kW, Cable 7.5m, WiFi, BLE, RFID, OLED, CT, Silver
<input type="checkbox"/> NEO 22-T7.5-S-0000	9100000001433	22kW, Cable 7.5m, WiFi, BLE, RFID, OLED, CT, Silver
<input type="checkbox"/> NEO 22-S-S-0000	9100000001233	22kW, Socket, WiFi, BLE, RFID, OLED, CT, Silver
<input type="checkbox"/> NEO 22-SS-S-0000	9100000001333	22kW, Socket with shutter, WiFi, BLE, RFID, OLED, CT, Silver

4G with User SIM / eSIM

Model	Part no.	Description
<input type="checkbox"/> NEO 7-T7.5-ES-S-0000	9100000003413	7kW, Cable 7.5m, WiFi, BLE, RFID, OLED, CT, 4G with USIM/eSIM, Silver
<input type="checkbox"/> NEO 11-T7.5-ES-S-0000	9100000003423	11kW, Cable 7.5m, WiFi, BLE, RFID, OLED, CT, 4G with USIM/eSIM, Silver
<input type="checkbox"/> NEO 22-T7.5-ES-S-0000	9100000003433	22kW, Cable 7.5m, WiFi, BLE, RFID, OLED, CT, 4G with USIM/eSIM, Silver
<input type="checkbox"/> NEO 22-S-ES-S-0000	9100000003233	22kW, Socket, WiFi, BLE, RFID, OLED, CT, 4G with USIM/eSIM, Silver
<input type="checkbox"/> NEO 22-SS-ES-S-0000	9100000003333	22kW, Socket with shutter, WiFi, BLE, RFID, OLED, CT, 4G with USIM/eSIM, Silver

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REMARK

- 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.
- 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.

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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

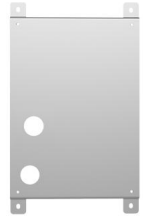
Part no. 9006000000111

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