

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 $\pm$ 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

Calibrated $\pm$ 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

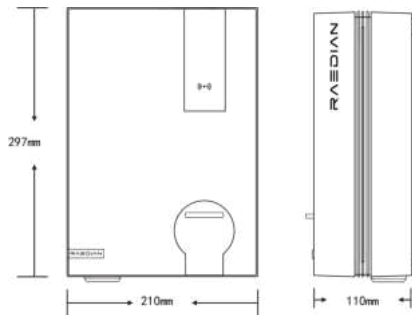
Packaging dimensions (H x W x D)

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
NEO 7-T5-S-0000	9100000001113	7kW, Cable 5m, WiFi, BLE, RFID, OLED, CT, Silver
NEO 7-S-S-0000	9100000001213	7kW, Socket, WiFi, BLE, RFID, OLED, CT, Silver
NEO 7-SS-S-0000	9100000001313	7kW, Socket with shutter, WiFi, BLE, RFID, OLED, CT, Silver
NEO 11-T5-S-0000	9100000001123	11kW, Cable 5m, WiFi, BLE, RFID, OLED, CT, Silver
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
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

- 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.

VARIANTS

UK Smart Charging Legislation and BS 7671 compliant variants by request
§EnWG 14a variants for Germany with support of potential free contact by request

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. 900600000011



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. 9027000000001

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

Part no. 90270000000032



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 |