RAEDIAN

NEO

Datasheet - PREMIUM SMART CHARGING

www.raedian.com



Rev.1.0

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

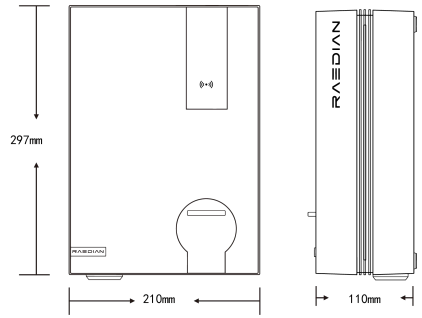
Mounting options
Wall mounted
Pedestal

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



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

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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.

VARIANTS

UK Smart Charging Legislation and BS 7671 compliant vartiants 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
- Packaging(HxWxD): 1,610 x 360 x 210 mm
- Material: Aluminium Alloy
- Color: Black
- Weight: 11.6 kg

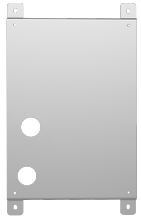
Part no. 9006000000111



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**