

NEX

Datasheet – SEMI PUBLIC CHARGING SOLUTIONS



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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

2. Connectivity

Vehicle communication

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

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

RFID authentication

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

Connectivity to backend

Ethernet: RJ45*2, Daisy Chain
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 TCP via LAN, WLAN
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
EtherBox: IP67

IK protection (mechanical impact)

IK10

Operating altitude

3000m

Standby Power

4.5W

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)

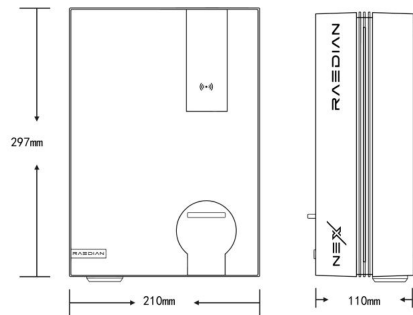
297 x 210 x 110 mm

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 - 7.7 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

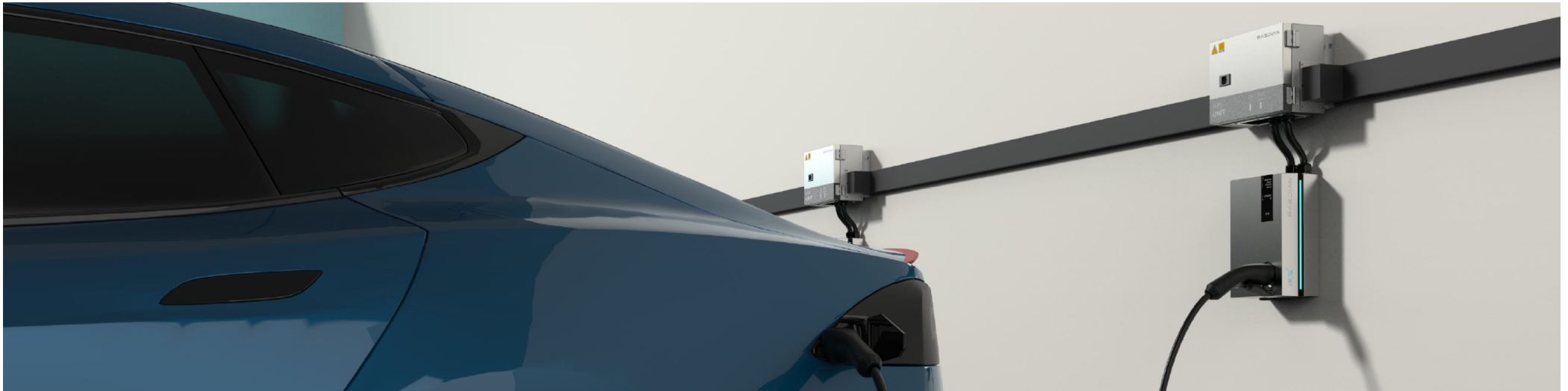
EN 62311:2008
EN 50663:2017
EN 61000-6-2:2016
EN 61000-6-3:2006

RoHS

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

MID

EN 50470-3
EN 62053-23



Available Colors

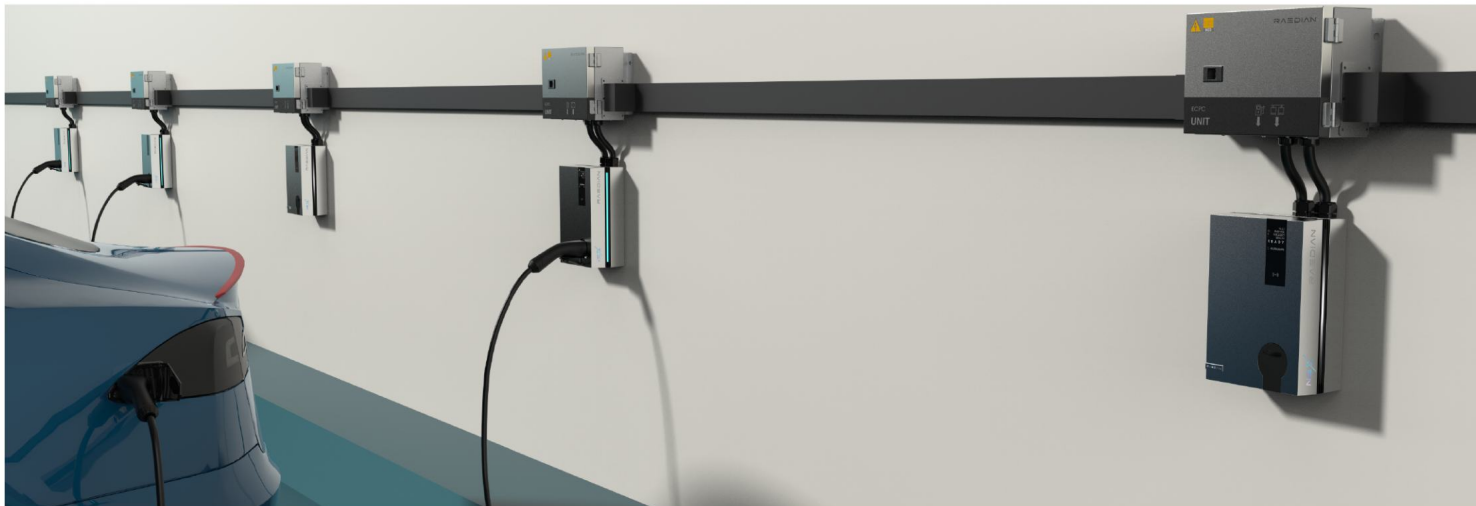
- Metallic Silver
- Space Grey
- Lunar Light
- Passion Red



Product Variants

4G+LAN+WiFi

Model	Part no.	Description
☒ NEX 22-T7.5-ES-S-0000	9102000003433	22kW, Cable 7.5m, 4G with USIM/eSIM, Ethernetx2, WiFi, BLE, RFID, OLED, Silver
☒ NEX 22-S-ES-S-0000	9102000003233	22kW, Socket, 4G with USIM/eSIM, Ethernetx2, WiFi, BLE, RFID, OLED, Silver
☒ NEX 22-SS-ES-S-0000	9102000003333	22kW, Socket with shutter, 4G with USIM/eSIM, Ethernetx2, WiFi, BLE, RFID, OLED, Silver



NEX

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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

- Pedestal Model 1 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

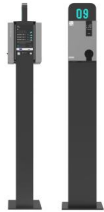
Part no. 9006000000111



Multi Color

Multi color housing, front cover and backplate

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



Pedestal

Pedestal Model 2 for Double NEX
Part no. 9006000010000



RFID Card

RFID Card, Business, 20 Cards
Part no. 9004000000001



ECPC Hub

ECPC HUB 80A
ECPC HUB 160A
ECPC HUB 250A

Part no. 9023000000101

Part no. 9023000000102

Part no. 9023000000103



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



ECPC Unit

ECPC Unit, 40A 1P, Type B
ECPC Unit, 40A 3P, Type B
ECPC Unit, 40A 1P, Type A
ECPC Unit, 40A 3P, Type A

Part no. 9025000000101

Part no. 9025000000102

Part no. 9025000000201

Part no. 9025000000202



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**