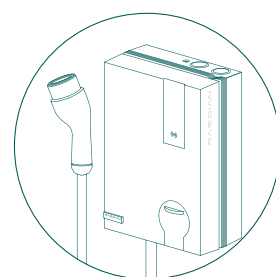
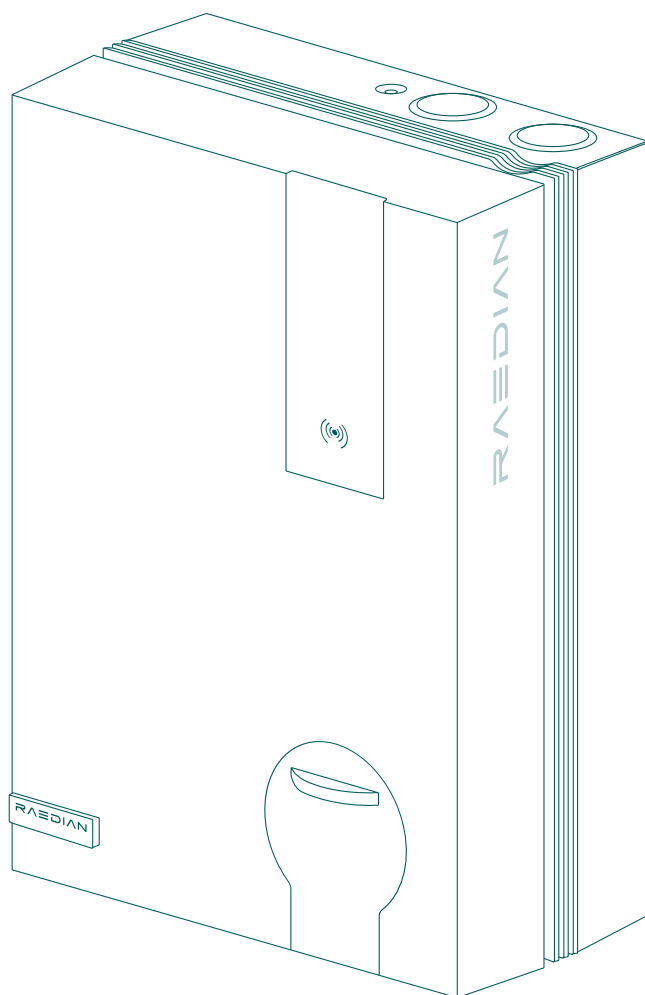


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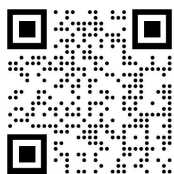
NEO

Technical Datasheet



NEO NEO PLUS

PREMIUM SMART CHARGING



www.raedian.com

 **RAEDIAN**

Technical Specifications

NEO		NEO Plus
General		
Charging connector	IEC 62196 Type 2 cable 5m, Type 2 socket, Type 2 socket with shutter	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%	
Earthing system	TN/TT/IT	
Nominal frequency	50/60Hz	
Maximum output power	Single phase up to 7.4kW Three phase up to 22kW with downgrade compatibility	
Protection	UVP, OVP, OCP, Relay Stuck, Over Temperature	
Residual current protection	At least Type A RCD upstream + Integrated 6mA DC per IEC 62955	
Metering accuracy	Calibrated $\pm$ 1% Accuracy	MID Certified Class B ($\pm$ 1% Accuracy) Electrical Pulse output: 1000 imp/kWh 0.25-5(32)A (11/22kW variants apply)

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, 4G: LTE CAT I	Wi-Fi: 2.4GHz, Ethernet: RJ45 4G: LTE CAT I
Connectivity to EMS/Meter	Modbus RTU via RS-485	
Connectivity to smart phone	Bluetooth	
Backend protocol	OCPP 1.6(JSON) 2nd edition	
SIM card	Two SIM options: User SIM: Nano SIM, Settable APN user name and password eSIM: Integrated	

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.		

NEO

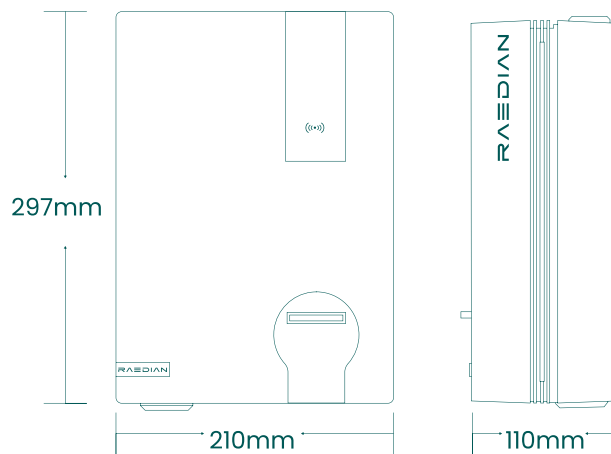
NEO Plus

Operating Conditions

Operating temperature	-30 ~ 55°C with derating mechanism
IK protection (mechanical impact)	IK10
Relative humidity	5% ~ 95%
Operating altitude	3000m
Electrical safety class	Class I
Standby power	3.86W
Degree of protection (housing)	Charging core: IP55 Between charging core and backplate: IP54
Environmental conditions	Indoor / outdoor use
EMC Environmental conditions	Class B residential according to IEC 61851-21-2

Mechanical

Mounting options	Wall mounted, Pedestal
Material	Polycarbonate, UV resistant and flame retardant, UL94 5VA
Casing (exterior) dimensions	297 x 210 x 110 mm (H x W x D)
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 kg4.7 - 8.5 kg



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
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
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
UKCA	UK Smart Charging Legislation, BS 7671:2018+A2:2022

Accessories



Pedestal Model 1

For charging station mounting
Double-sided installation, cable hook

Dimension(HxWxD): 1,435.5 x 260 x 200 mm
Packaging(HxWxD): 1,460 x 310 x 210 mm
Material: Aluminium Alloy
Color: Black



RFID Card

5*RFID: RFID Card, Home, 5 Cards



SC Kit

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



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



CT Clamp

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

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



Charging Cable

T2 to T2, 5m, 1-phase, up to 32A(7kW)
T2 to T2, 7.5m, 1-phase, up to 32A(7kW)
T2 to T2, 5m, 3-phases, up to 32A(22kW)
T2 to T2, 7.5m, 3-phases, up to 32A(22kW)



Wall Bracket

Safe and secure installation on uneven surfaces

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



Cable Hook

Convenient for keeping your charging cable organized

Color: Black
Weight: 0.106 kg