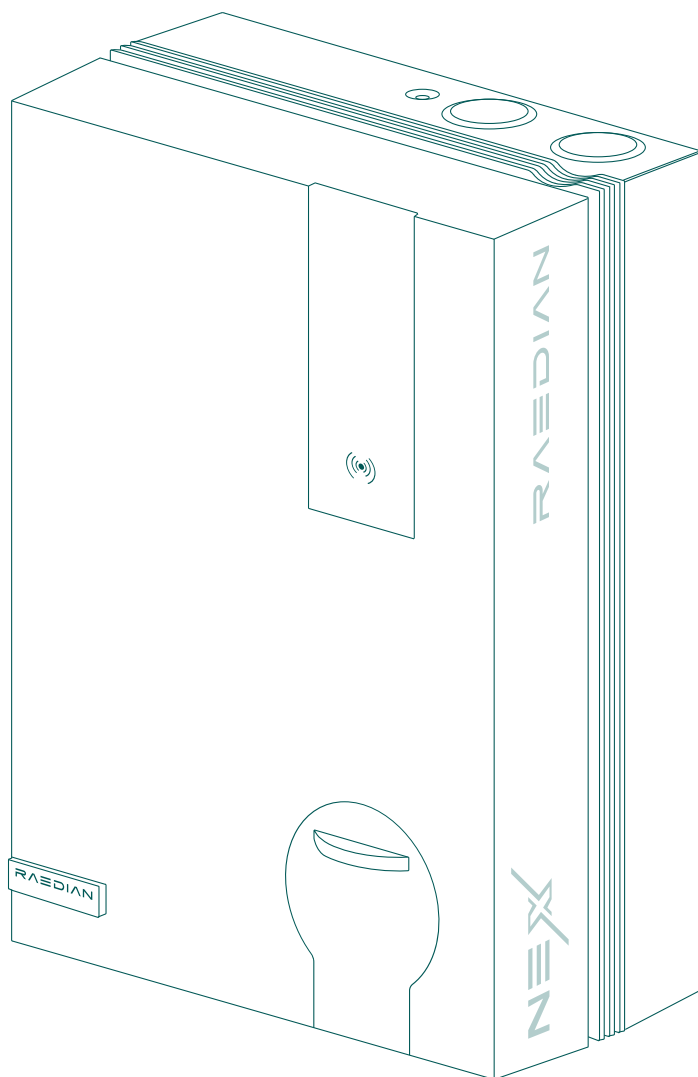


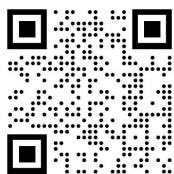
Rev 2.0
2025

NEX

Technical Datasheet



COMMERCIAL & INDUSTRIAL
CHARGING SOLUTION



www.raedian.com

 **RAEDIAN**

Technical Specifications

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

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	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; LoRa 868MHz
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

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.	

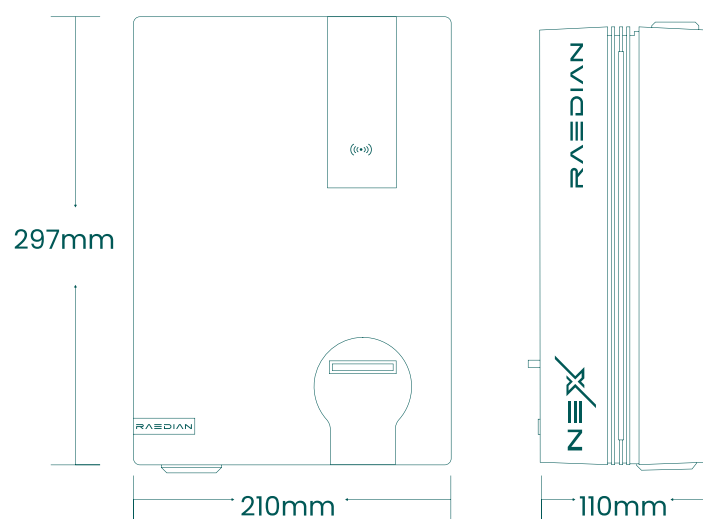
Hybrid Dynamic Load Management	
• Connect to HDLM Kit via RS-485 or Wireless LoRa, • Connection between Leader Charger and Follow Charger via Wireless LoRa. • Multiple chargers Dynamic Load Balancing.	

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	4.5W
Degree of protection (housing)	Charging core: IP55, Between charging core and backplate: IP54, EtherBox: IP67
Environmental conditions	Indoor / outdoor use
EMC Environmental conditions	Class B residential according to IEC 61851-21-2

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, EN 300220-1 V3.1.1:2017, EN 300220-2 V3.1.1:2017
MID	EN 50470-3, EN 62053-23
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
UKCA	UK Smart Charging Legislation, BS 7671:2018+A2:2022

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	4.7 - 8.5 kg



Accessories



HDLM Kit

HDLM Kit for NEX, Gemini
HDLM Kit 100, 3P Meter Unit, 3 CT Clamps, 100A, 1:5000
HDLM Kit 400, 3P Meter Unit, 3 CT Clamps, 400A, 1:4000
HDLM Kit 600, 3P Meter Unit, 3 CT Clamps, 600A, 1:6000



SC Kit

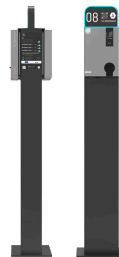
Solar Charging kit for NEO, NEX
3P Meter Unit, 3 CT Clamps, 80A, 1:3000



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



Pedestal Model 2

For charging station mounting
Pedestal for 2*NEX, back to back installation, protection cabinet with DIN rail

Dimension(HxWxD): 1,407 x 350 x 230 mm
Packaging(HxWxD): 1,467 x 410 x 290 mm
Material: Aluminium Alloy
Color: Black



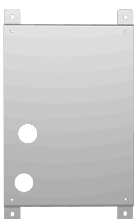
Charging Cable

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)



RFID Card

RFID Card, Business, 20 Cards



Wall Bracket

Safe and secure installation on uneven surfaces

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