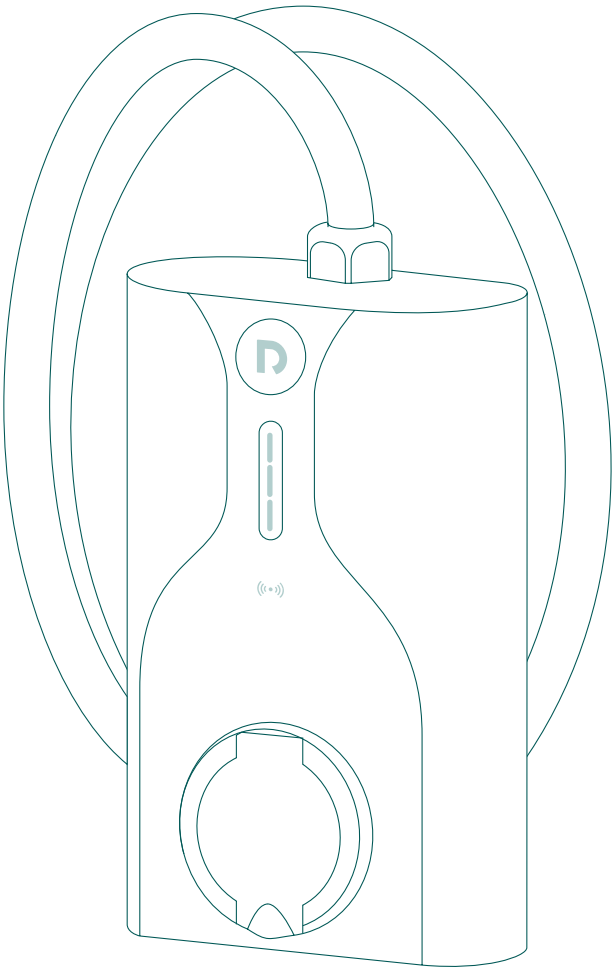
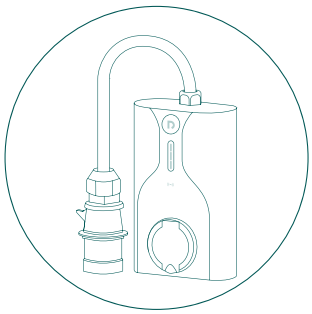
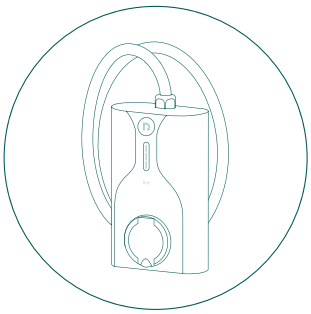
Rev 2.0
2025

NORA

Technical Datasheet







SMART HOME CHARGING

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RAEDIAN

Technical Specifications

General	
Charging connector	IEC 62196, Type 2 socket
Authentication methods	Plug & Charge, RFID, Push Start button, RAEDIAN APP via BLE, OCPP Backend
HMI & indication	RGB Logo LEDs, RGB Status LEDs
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 ± 2% Accuracy

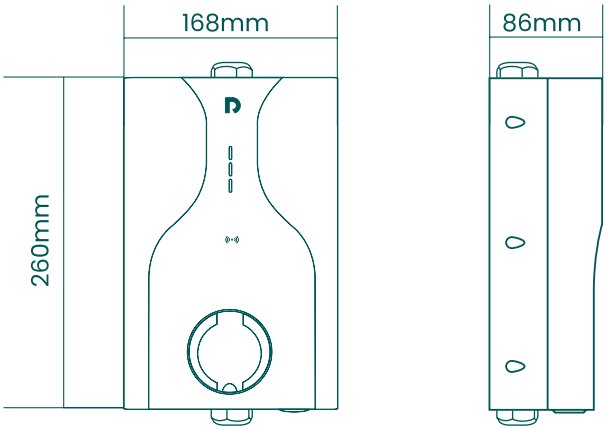
Connectivity	
Vehicle communication	Mode 3 in accordance with IEC 61851-1 ed. 3 (2017)
RFID authentication	ISO/IEC 14443A/B, 13.56 MHz
Connectivity to backend	Wi-Fi: 2.4GHz, 802.11 b/g/n; 4G: LTE CAT I, LTE-FDD: B1/3/5/7/8/20/28
Backend protocol	OCPP 1.6(JSON) 2nd edition
Connectivity to EMS/Meter	LoRa Wireless 868MHz
Connectivity to smart phone	Bluetooth

Load Management Options

- Connect to Air DLM Kit for Dynamic Load Balancing and Solar Charging,
- OCPP backend load management,
- Static load management setting in RAEDIAN APP, RAEDIAN Install APP.

Operating Conditions	
Operating temperature	-30 ~ 55°C with derating mechanism
IK protection (mechanical impact)	IK10
Relative humidity	5% ~ 95%
Operating altitude	2000m
Electrical safety class	Class I
Standby power	4.5W
Degree of protection (housing)	IP55
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 V0
Casing (exterior) dimensions	260 x 168 x 86 mm(H x W x D)
Packaging dimensions (H x W x D)	430 x 360 x 130 mm (CEE socket variant), 430 x 205 x 320 mm (CEE cable variant), 430 x 205 x 320 mm (Hardwire)
Weight	3.9-6.2 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
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
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

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