

C50

Built to Power Places



Optimal
Performance

50 kW
Continuous Power

Compact Size

235 mm
Thin Form Factor

Configurable
Branding

21.5" HD
Interactive Display

Power Specification

DC Output:	Output Power: 50 kW Dynamic Power Sharing: 25 kW power granularity Output voltage: 150 - 980 V Output current (continuous): 150 A Number of outlets: dual outlet Total system efficiency: up to 96 %
AC Input:	Nominal voltage: (CE): 400 Vac ($\pm 10\%$) (NA): 480 Vac ($\pm 10\%$) Nominal input current (RMS): (CE): 77 A (NA): 64 A Frequency: (CE): 50 Hz ($\pm 10\%$) (NA): 60 Hz ($\pm 10\%$) Earthing systems: (CE): TN-C, TN-C-S, TN-S, TT (NA): WYE Inlet cable size per phase (no neutral): multi core cable, max. 28 mm (1.1 in) outer diameter Power factor: ≥ 0.99 @ full load Total Harmonic Distortion (THD): $< 3\%$ Overvoltage category: III SPD: (CE): Type 1 + 2 (NA): Type 1

Customer Interface

Display:	Type: 21.5" HD full color anti-glare LCD Brightness: 1300 nits; Contrast: 5000:1 Interface: Touchscreen
HMI Configuration:	Info modules: pricing, payment method, follow my charge data, geek view, help content, idle state info Branding modules: brand color & font, logo, media modules, app QR code, outro screen, LED lighting color code
Languages:	English, French, Spanish, German, Italian, Dutch, Norwegian (others available via software upgrade)
Connector Options:	Air-cooled CCS1, CCS2, J3400 (NACS)
CMS:	Integrated balancer CMS contained in sealed oil chamber
Cable:	Length: 4.2 m (13.8 ft); Reach: 3.9 m (12.8 ft); Type: Air-cooled
Authentication Methods:	RFID, Autocharge, Plug and Charge, credit/debit card, mobile app
RFID System:	ISO 14443 A/B to part 4 and ISO/IEC 15693 and the following standards: NFC, Calypso, Ultralight, Paypass, HID
Lighting:	Dual RGBW LED strips on top
Remote Management:	Access control, configuration, diagnostics, software updates

System Specification

Operating Conditions:	Operating from -30 °C to 55 °C (-22 °F to 131 °F) Storage / transport from -5 °C to 40 °C (23 °F to 104 °F) Altitude: 2500 m (8202 ft) Humidity: up to 95 %, non-condensing Impact resistance: IK10 (LED, IM30 payment terminal, gun holder: IK08) IP rating: IP54, NEMA 3R; indoor and outdoor rated Noise emission: 55 dB(A) average @ 1 m, 25 °C (77 °F), ISO 11203 Intended use: indoor and outdoor Mounting options: floor mounted Environment pollution degree: Class 3
Form Factor:	H x W x D: 1967 x 853 x 235 mm (77.4 x 33.6 x 9.3 in) Weight: 175 kg (385 lbs) Accessibility: meets ADA requirements for height, reach, and user interface Enclosure type: high-durability aluminum body Corrosion resistance: C5-H, ISO 12944

Standards & Compliance

Safety Standards:	(CE): IEC 61851-23 ed 1 IEC 61851-1 ed 3 (NA): UL 2202, UL 2231-1, UL 2231-2, CSA 22.2 No.346:22
Metering:	(CE): Eichrecht (NA): CTEP/NTEP
EMC:	(CE): IEC 61851-21-2 (NA): FCC 47 CFR Part 15B (Class A)
Manufactured:	USA & Europe
Network Connections:	GSM/3G/4G, 10/100 Base-T Ethernet
Network Communication Protocol:	Open Charge Point Protocol (OCPP) 1.6J and 2.0.1
Vehicle Communication Protocol:	DIN SPEC 70121, ISO 15118-2, ISO 15118-3, Autocharge, Plug and Charge
Short Circuit Current Rating:	(CE): 35 kA (NA): 35 kA
RED Directive:	EN 301 489-1 V2.2.3:2019, EN 301 489-3 V2.3.2:2023, EN 301 489-52 V1.2.1:2021, EN 300 330 V2.1.1:2017, EN 301 908-1 V15.2.1:2023, EN 301 908-13 V13.2.1: 2022
Additional Standards:	DC plugs compliant with IEC 62196-1:2014, IEC 62196-3:2014, Cabinet IP rating according to IEC 60529:2013
Designed Lifespan:	10 years

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