



PKM150

Product Specifications



CHARGING STATION EDITIONS

Feature	Good	Best
POWER LEVELS OFFERED	100kW / 150kW	100kW / 150kW
"PAY AS YOU GROW" UPGRADABLE	100kW → 150kW	100kW → 150kW
3RD PARTY UL CERTIFIED*	✓	✓
3RD PARTY CE CERTIFIED*	✓	✓
SINGLE PERSON LIFT FIELD REPLACEABLE MODULES	✓	✓
RFID READER	✓	Included in CCR
10" LCD SCREEN	✓	✓
SENSOR PACKAGE (TILT, DOOR INGRESS)	✓	✓
SIMULTANEOUS CHARGING OF TWO VEHICLES	✓	✓
MIX & MATCH CABLES (CHADEMO / CCS1 / CCS2)	✓	✓
CHARGING CABLE OPTIONS AVAILABLE	CCS: 200A / 350A CHAdeMO: 125A	CCS: 200A / 350A CHAdeMO: 125A
CHARGING CABLE LENGTH	3.6 meters (11ft 9in)	6 meters (19ft 8in)
CHARGING CABLE MANAGEMENT	n/a	✓
CHARGE STATE INDICATOR LIGHTS	n/a	✓
CUSTOMER BRANDED VINYLs	Optional	✓
CREDIT CARD READER WITH RFID SUPPORT (CHARGER INTEGRATED)	Optional	✓
[DE-M] DC METER (EICHRECHT)	Optional*	Optional*
STANDARD WARRANTY	2 Years	2 Years
WARRANTY EXTENSIONS AVAILABLE	+1Yr / +2Yr / +3Yr	+1Yr / +2Yr / +3Yr

* Pending certification completion

DC MICROGRID RECTIFIER OPTIONS

Feature	Rectification Unit
NO. OF DC OUTPUTS	1 - 4
STANDARD WARRANTY	2 Years
WARRANTY EXTENSIONS AVAILABLE	+1Yr / +2Yr / +3Yr



CHARGING STATION SPECIFICATIONS

Item	Specification
MAXIMUM OUTPUT POWER	Single Vehicle Charging: 150KW Simultaneous Charging: 2 x 75kW
OUTPUT VOLTAGE	CCS: 150-920VDC CHAdeMO: 50-500VDC
OUTPUT CURRENT	Single Vehicle Charging: up to 350A Simultaneous Charging: up to 400A (2 x 200A)
SUPPLY INPUT	950VDC (DC Microgrid)
IP RATING	IP65 (NEMA 3R)
IK RATING	IK10
EFFICIENCY	>97%
MAXIMUM OPERATING ALTITUDE	3000m (9842ft)
ACOUSTIC NOISE	Maximum 65dB (variable under load)
OPERATING TEMPERATURE	-35°C to +50°C (-31°F to +122°F) (with derating)
STORAGE TEMPERATURE	-35°C to +70°C (-31°F to +158°F)
COMMUNICATION PROTOCOL	OCPP v1.6J
NETWORK CONNECTION (SYSTEM)	Ethernet
AUTHENTICATION METHODS	RFID: MI-FARE ISO/IEC14443A/B, ISO/IEC15693, ISO/IEC18000-3, FeliCa, NFC Vehicle: ISO15118 Plug and Charge
ELECTRICAL PROTECTION	Over current, Over voltage, Under voltage, Short circuit, Surge protection
ENCLOSURE CONSTRUCTION	Aluminium double skin
DIMENSIONS	Footprint: 1998mm (78.6") (H) x 783mm (30.8") (W) x 309mm (12.1") (D) Maximum points: 1998mm (78.6") (H) x 898mm (35.3") (W) x 450mm (17.7") (D)
WEIGHT	Up to 335kg (739lbs) depending on configuration
ACCESSIBILITY	Meets US ADA, EN 301 549 Accessibility Height Requirements
SAFETY COMPLIANCE*	WORLDWIDE: CB certified, IEC 61851-1, 61851-23 on configuration USA, CANADA: cTUVus, NRTL Certified to UL 2202 and CSA C22.2 No. 107.1
EMC*	WORLDWIDE: EMC Directive. Immunity: Class A Emissions: Class B USA: FCC. Immunity: Class A Emissions: Class Bw

* Pending certification completion



DC MICROGRID RECTIFIER UNIT

Item	Specification
OUTPUT POWER	WORLDWIDE (400VAC): Up to 300kW total USA (480VAC): Up to 360kW total
INPUT VOLTAGE	WORLDWIDE (400VAC): 400VAC 3ph +/-10%. Derating applied on low line level and phase imbalance USA (480VAC): 480VAC 3ph +/-10%. Derating applied on low line level and phase imbalance
FREQUENCY	WORLDWIDE (400VAC): 50Hz +/- 10% USA (480VAC): 60Hz +/- 10%
NOMINAL CURRENT AT NOMINAL VOLTAGE LEVEL	WORLDWIDE (400VAC): 450A USA (480VAC): 450A
MAXIMUM CURRENT AT LOW LINE LEVEL (NOMINAL VOLTAGE - 10%) AND PF>0.99	480A
INPUT OVERVOLTAGE CATEGORY	Category III
EFFICIENCY*	WORLDWIDE (400VAC): > 97.6% USA (480VAC): > 98.1%
SURGE PROTECTION	WORLDWIDE (400VAC): EN 61643-11 Type 2 SPD with In = 20kA 8/20us, SCCR = 150kA, including backup fuse USA (480VAC): UL Listed Type 1 SPD In = 20kA, SCCR = 200kA, including backup fuse
OUTPUT VOLTAGE	950VDC
NO. DC OUTPUTS	1 to 4
SHORT CIRCUIT CURRENT RATING	18kA
ISOLATION BETWEEN AC MAINS AND CHARGING STATION	Not isolated
POWER FACTOR (CHARGING)	>0.99
TOTAL HARMONIC DISTORTION (THD)	<5%
MAXIMUM OPERATING ALTITUDE	2000m (6562ft)
OPERATING TEMPERATURE	-35°C to +50°C (-31°F to +122°F) (with derating), 5-95% RH Non Condensing
STORAGE TEMPERATURE	-40°C to +65°C (-40°F to +149°F), 5-95% RH Non Condensing
COMMUNICATION PROTOCOL	OCPP v1.6J
NETWORK CONNECTION	3G/4G/Ethernet
NETWORK CONNECTION (SYSTEM)	Ethernet to Charging Stations
WEIGHT	510kg (1125lbs) for base RU + 15kg (33lbs) for cable interface + 15kg (33lbs) per DC Port
SHIPPING WEIGHT	510kg (1125lbs) for base RU + 15kg (33lbs) for cable interface + 15kg (33lbs) per DC Port + 90kg (199lbs) for crate
DIMENSIONS	Footprint: 2360mm (92.9") (H) x 535mm (21.0") (W) x 1028mm (40.4") (D) Maximum points: 2360mm (92.9") (H) x 694mm (27.3") (W) x 1094mm (43.0") (D)
IK RATING	IK10

DC MICROGRID RECTIFIER UNIT *CONTINUED*

Item	Specification
IP RATING	IP55 (NEMA 3R)
POWER SUPPLY	Battery-backed UPS functionality for telemetry during power outage
OVER CURRENT PROTECTION DEVICE (OCPD) REQUIRED IN SITE DISTRIBUTION BOARD	Yes
RESIDUAL CURRENT MONITORING IN SITE DISTRIBUTION BOARD	Optional
UNDER-VOLTAGE RELAY OR SHUNT TRIP RELAY REQUIRED IN SITE DISTRIBUTION BOARD	Yes
EMC*	WORLDWIDE: EMC Directive. Immunity: Class A Emissions: Class A USA: FCC. Immunity: Class A Emissions: Class A

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