



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		✓
CHARGE STATE INDICATOR LIGHTS		✓
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

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	1998mm (H) x 850mm (W) x 309mm (D) (79" x 34" x 12")
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. 1071
EMC*	WORLDWIDE: EMC Directive Immunity: Class A Emissions: Class B USA: FCC Immunity: Class A Emissions: Class B

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DC MICROGRID RECTIFIER UNIT

ITEM	WORLDWIDE: (400VAC)	USA: (480VAC)
OUTPUT POWER	Up to 300kW total	Up to 360kW total
INPUT VOLTAGE	400VAC 3ph +/-10% Derating applied on low line level and phase imbalance	480VAC 3ph +/-10% Derating applied on low line level and phase imbalance
FREQUENCY	50Hz +/- 10%	60Hz +/- 10%
NOMINAL CURRENT AT NOMINAL VOLTAGE LEVEL	450A	450A
MAXIMUM CURRENT AT LOW LINE LEVEL (NOMINAL VOLTAGE - 10%) AND PF>0.99	480A	480A
INPUT OVERVOLTAGE CATEGORY	Category III	Category III
EFFICIENCY*	> 97.6%	> 98.1%
SURGE PROTECTION	EN 61643-11 Type 2 SPD with In = 20kA 8/20us, SCCR = 150kA, including backup fuse	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	2345mm (H) x 650mm (W) x 1100mm (D) (93" x 26" x 44")	
IK RATING	IK10	
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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