



# 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

<b>MAXIMUM OUTPUT POWER</b>	Single Vehicle Charging: 150kW Simultaneous Charging: 2 x 75kW
<b>OUTPUT VOLTAGE</b>	<b>CCS:</b> 150-920VDC <b>CHAdeMO:</b> 50-500VDC
<b>OUTPUT CURRENT</b>	Single Vehicle Charging: up to 350A Simultaneous Charging: up to 400A (2 x 200A)
<b>SUPPLY INPUT</b>	950VDC (DC Microgrid)
<b>IP RATING</b>	IP65 (NEMA 3R)
<b>IK RATING</b>	IK10
<b>EFFICIENCY</b>	>97%
<b>MAXIMUM OPERATING ALTITUDE</b>	3000m (9842ft)
<b>ACOUSTIC NOISE</b>	Maximum 65dB (variable under load)
<b>OPERATING TEMPERATURE</b>	-35°C to +50°C (-31°F to +122°F) (with derating)
<b>STORAGE TEMPERATURE</b>	-35°C to +70°C (-31°F to +158°F)
<b>COMMUNICATION PROTOCOL</b>	OCPP v1.6J
<b>NETWORK CONNECTION (SYSTEM)</b>	Ethernet
<b>AUTHENTICATION METHODS</b>	RFID: MI-FARE ISO/IEC14443A/B, ISO/IEC15693, ISO/IEC18000-3, FeliCa, NFC Vehicle: ISO15118 Plug and Charge
<b>ELECTRICAL PROTECTION</b>	Over current, Over voltage, Under voltage, Short circuit, Surge protection
<b>ENCLOSURE CONSTRUCTION</b>	Aluminium double skin
<b>DIMENSIONS</b>	1998mm (H) x 850mm (W) x 309mm (D) (79" x 34" x 12")
<b>WEIGHT</b>	Up to 335kg (739lbs) depending on configuration
<b>ACCESSIBILITY</b>	Meets US ADA, EN 301 549 Accessibility Height Requirements
<b>SAFETY COMPLIANCE*</b>	<b>WORLDWIDE:</b> CB certified, IEC 61851-1, 61851-23 on configuration <b>USA, CANADA:</b> cTUVus, NRTL Certified to UL 2202 and CSA C22.2 No. 107.1
<b>EMC*</b>	<b>WORLDWIDE:</b> EMC Directive Immunity: Class A Emissions: Class B <b>USA:</b> FCC Immunity: Class A Emissions: Class B

\* Pending certification completion

## DC MICROGRID RECTIFIER UNIT

ITEM	WORLDWIDE: (400VAC)	USA: (480VAC)
<b>OUTPUT POWER</b>	Up to 300kW total	Up to 360kW total
<b>INPUT VOLTAGE</b>	400VAC 3ph +/-10% Derating applied on low line level and phase imbalance	480VAC 3ph +/-10% Derating applied on low line level and phase imbalance
<b>FREQUENCY</b>	50Hz +/- 10%	60Hz +/- 10%
<b>NOMINAL CURRENT AT NOMINAL VOLTAGE LEVEL</b>	450A	450A
<b>MAXIMUM CURRENT AT LOW LINE LEVEL (NOMINAL VOLTAGE - 10%) AND PF&gt;0.99</b>	480A	480A
<b>INPUT OVERVOLTAGE CATEGORY</b>	Category III	Category III
<b>EFFICIENCY*</b>	> 97.6%	> 98.1%
<b>SURGE PROTECTION</b>	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
<b>OUTPUT VOLTAGE</b>	950VDC	
<b>NO. DC OUTPUTS</b>	1 to 4	
<b>SHORT CIRCUIT CURRENT RATING</b>	18kA	
<b>ISOLATION BETWEEN AC MAINS AND CHARGING STATION</b>	Not isolated	
<b>POWER FACTOR (CHARGING)</b>	>0.99	
<b>TOTAL HARMONIC DISTORTION (THD)</b>	<5%	
<b>MAXIMUM OPERATING ALTITUDE</b>	2000m (6562ft)	
<b>OPERATING TEMPERATURE</b>	-35°C to +50°C (-31°F to +122°F) (with derating) 5-95% RH Non Condensing	
<b>STORAGE TEMPERATURE</b>	-40°C to +65°C (-40°F to +149°F) 5-95% RH Non Condensing	
<b>COMMUNICATION PROTOCOL</b>	OCPP v1.6J	
<b>NETWORK CONNECTION</b>	3G/4G/Ethernet	
<b>NETWORK CONNECTION (SYSTEM)</b>	Ethernet to Charging Stations	
<b>WEIGHT</b>	510kg (1125lbs) for base RU + 15kg (33lbs) for cable interface + 15kg (33lbs) per DC Port	
<b>SHIPPING WEIGHT</b>	510kg (1125lbs) for base RU + 15kg (33lbs) for cable interface + 15kg (33lbs) per DC Port + 90kg (199lbs) for crate	
<b>DIMENSIONS</b>	2345mm (H) x 650mm (W) x 1100mm (D) (93" x 26" x 44")	
<b>IK RATING</b>	IK10	
<b>IP RATING</b>	IP55 (NEMA 3R)	
<b>POWER SUPPLY</b>	Battery-backed UPS functionality for telemetry during power outage	
<b>OVER CURRENT PROTECTION DEVICE (OCPD) REQUIRED IN SITE DISTRIBUTION BOARD</b>	Yes	
<b>RESIDUAL CURRENT MONITORING IN SITE DISTRIBUTION BOARD</b>	Optional	
<b>UNDER-VOLTAGE RELAY OR SHUNT TRIP RELAY REQUIRED IN SITE DISTRIBUTION BOARD</b>	Yes	
<b>EMC*</b>	<b>WORLDWIDE:</b> EMC Directive Immunity: Class A Emissions: Class A <b>USA:</b> FCC Immunity: Class A Emissions: Class A	

\* Pending certification completion