

120 KW DC FAST CHARGER

Specifications Sheet



Power TP5-120-480

Maximum Power	120 kW
Output Voltage	150-1000VDC
Max Output Current	Up to 400A
Input Voltage Frequency	480VAC (3P + N + PE) 60Hz
FLA Breaker Rating	160A 200A
Rated Power	132.9kVA
Power Factor	> 0.98 @ full load
Efficiency	> 94% at nominal power output

Connectors TP5-120-480

Connector Options	CCS1 CHAdeMO NACS
CCS Cable	Standard up to 200A - Air Cooled Optional up to 300A (Nominal) & 350A (Peak) - Air Cooled
CHAdeMO Cable	Up to 125A - Air Cooled
NACS Cable	Up to 400A - Air Cooled
Cycle Mode	1 x 120kW (Max: 400A)
Parallel Mode	2 x 60kW (Max: 400A)
Charging Protocol	Mode 4, IEC-61851, ISO-15118, DIN SPEC 70121 Mode 4, CHAdeMO 0.9, 1.0
Connector Cable Length	CCS & NACS & CHAdeMO - 16ft (5m) Cable Management included for all connectors

Charger Properties TP5-120-480

Weight	816lbs (370kg)
Dimensions (L x D x H)	39.96" x 29.52" x 73.42"
Display	10" LCD touch screen
Ingress Protection	NEMA 3S (IP54), IK 10
Altitude	< 6,600ft (2,000m)
Operating Temperature	-20°C to 55°C (-4°F to 131°F)
Working Storage Humidity	≤ 95% RH ≤ 99% RH (Non-condensing)
Insulation (input - output)	> 2.5kV
Interface Protocol	OCPP 1.6J
Access Control	RFID: ISO/IEC 14443A/B Credit Card Reader - Optional
Power Electronics Cooling	Air Cooled

Compliance & Safety TP5-120-480

Regulatory Compliance	UL 2202, UL 2231-2 EMC: EN 61000-6-1:2007, EN 61000-6-3:2007/A1:2011/AC:2012
Communication Protocol	Ethernet, 4G, Wi-Fi
Electrical Safety: GFCI	RCD 20mA Type A
Electrical Safety: Surge Protection	20kA
Electrical Safety: General	Over Voltage, Under Voltage, Over Current, Missing Ground
Electrical Safety: Output Short	Output power disabled when output is short circuited
Electrical Safety: Temperature	Temperature Sensors @ Charge Coupler and Power Electronics
Emergency Stop	Emergency stop button disables output power
Metering	DC kWh meter per connector