

120kW DC FAST CHARGER

Specifications Sheet

TP4-120-480-2

150-750VDC



ATOM[®]
POWER



Power	TP4-120-480
Maximum Power	120 kW
Output Voltage	150-750VDC
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	TP4-120-480
Connector Options	CCS1 CCS1 and CCS1 CCS1 and CHAdeMO
CCS Cable	Standard 200A - Air Cooled Optional 300A (Nominal) & 350A (Peak) - Air Cooled
CHAdeMO Cable	125A - Air Cooled
Cycle Mode	1 x 120kW (Max: 350A)
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 - 16ft (5m) CHAdeMO - 16ft (5m) Cable Management included for both connectors

Charger Properties	TP4-120-480
Weight	840lbs (380kg)
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	TP4-120-480
Regulatory Compliance	UL 2202, UL 2231-2 EMC: EN 61000-6-1:2007, EN 61000-6-3:2007/A1:2011/AC:2012
Communications 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



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