
120kW DC FAST CHARGER

Specifications Sheet

TP5-120-480-2

150-1000VDC



ATOM[®]
POWER



Intertek

Power	TP5-120-480
Maximum Power	120 kW
Output Voltage	150 to 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 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	TP5-120-480
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	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
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



Atom Power, Inc.
 13245 Reese Blvd. W.
 Suite 130
 Huntersville, NC 28078

www.atompower.com
 (844) 704-2866
info@atompower.com