

# 160 KW DC FAST CHARGER

## Specifications Sheet



Power	TP5-160-480	HPC-160-480
Maximum Power	160 kW	
Output Voltage	150 – 1000VDC	
Max Output Current	Up to 500A	
Input Voltage    Frequency	480VAC (3P + N + PE)    60Hz	
FLA    Breaker Rating	215A    270A	
Rated Power	178.5kVA	
Power Factor	> 0.98 @ full load	
Efficiency	> 94% at nominal power output	

Connectors	TP5-160-480	HPC-160-480
Connector Options	CCS1    CHAdeMO    NACS	
CCS Cable	Standard up to 200A – Air Cooled    Optional up to 300A (Nominal) & 350A (Peak) – Air Cooled	Up to 400A – Liquid Cooled
CHAdeMO Cable	Standard up to 125A – Air Cooled    Optional up to 200A – Air Cooled	
NACS Cable	Up to 400A – Air Cooled	Up to 600A – Liquid Cooled
Cycle Mode	1 x 160kW (Max: 400A)	1 x 160kW (Max : 500A)
Parallel Mode	2 x 80kW (Max: 500A)	
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	CCS – 13ft (4m)    CHAdeMO & NACS – 16ft (5m) Cable management included for all connectors

Charger Properties	TP5-160-480	HPC-160-480
Weight	882lbs (400kg)	1102lbs (500 kg)
Dimensions (L x D x H)	39.96" x 29.52" x 73.42"	43.07" x 36.97" x 81.3"
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	TP5-160-480	HPC-160-480
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	