

Kempower Station Charger Technical Specifications



C501 Model - Single Cabinet



C502 Model - Double Cabinet

GENERAL ELECTRICAL SPECIFICATION

Number of ports	One or Two*
Max charging current per port	Up to 300 A**
Max power output per port	Up to 240 kW
Power output	50 - 400 kW**
Input voltage	480 VAC $\pm 6\%$
Input circuit breaker rating	400 A
Network type	TN-S, TN-C, TN-C-S
Input frequency	50-60 Hz
Overvoltage category	III (IEC 60664-1)
Icc	35 kA
Power factor at full load	0.92
Output voltage	150-920 VDC
Efficiency at full load	94%
Idle power	20 VA
Standby power	C501: 50 W, C502: 180 W

ENVIRONMENTAL SPECIFICATION

Operating temperature	30 – +50 °C
Current derating***	Charging current decreases 1.5% for every 1 °C rise in temperature above +40 °C
Maximum altitude without derating	2000 m
Altitude derating	Charging current decreases 1.4% for every 100 m rise above 2000 m
Operational noise level	Wall side: < 57 dB at 3.3 ft./1 m distance Door side: < 62 dB at 3.3 ft./1 m distance
Storage temperature	-40 – +60 °C
Ambient air humidity	< 95% relative humidity
Enclosure rating	Suitable for outdoor use

CONNECTORS, PROTOCOLS AND USER INTERACTION SPECIFICATION

Connectors	CCS, NACS, CHAdeMO
WiFi	802.11 b/g/n (2.4/5 GHz)
Cellular/GPS	LTE-FDD, LTE-TDD, WCDMA, GSM
Ethernet	RJ45, IEEE 802.3/802.3u
OCPP	1.6J/2.0.1
Authentication/Payment	RFID: ISO 14443A, ISO 15693, ISO 14443B (STM SRI512) Customer backend via OCPP Payment terminal, AutoCharge ISO 15118-2 Plug & Charge

*Optional upgrade to 3 and 4 ports with a satellite dispenser (sold separately).

***Thermal performance applies only to a standard power unit.