

DC 60/120kW Charger (Slim Type)



TÜVRheinland®



DC | DC 120kW Charger Slim Type



Main Features

- CCS1 or CCS2, CHAdeMO* or GBT* support
- IP54 design with high protection and high reliability for harsh environment
- OCPP 1.6J support
- Optional CoolRing™ function realize the power transfer between the two chargers which can get max 240kW in one charger
- Power can transfer between the two DC Connectors, and also can output at the same time for the two DC connectors
- Easily configure the output power from 50kW to 120kW with the 1000V charging voltage platform
- Full safety function with output contractor and fuse, EPO, SPD, RCD, Leakage Switch, Insulation detector protection
- 7" LCD & touch screen
- Multiple charging modes: Auto Basis, Time Basis, Amount Basis, Energy Basis, SOC Basis
- Multiple power distribution modes: Standalone, Current Switch, Plug Switch, Full Hold, Master Slave
- Internal high precision DC energy meter
- LAN and optional LTE wireless support, RFID authorization and Mobile App payment Support



Example: Hong Kong International Airport Office Tower
Suitable for Carpark with limited space

Specification (Max 120kW, 1000VDC, IP54)

Version:		60kW	120kW
Model:		EXP60K1-HT-S	EXP120K1-HT-S
Input AC Parameters	AC Frequency	45-65Hz	
	AC Voltage	3-phase+N+PE, 260Vac-530Vac	
	Power Factor	>0.99	
	Total Harmonic Current	<5% (Rated input)	
Output Parameters	DC Voltage Accuracy	<±0.5%	
	Output DC Voltage Range	DC 150V-1000V	
	Max DC Output Current	200A/300V, 120A/500V, 80A/750V, 60A/1000V Each charging cable's max output current is 200A/CCS, 250A/GBT, 125A/CHAdeMO	400A/300V, 240A/500V, 160A/750V, 120A/1000V Each charging cable's max output current is 200A/CCS, 250A/GBT, 125A/CHAdeMO
	Max DC Output Power	60kW	120kW
	Max System Efficiency	>94.5% (Rated Input and Output)	
Working Environment	Ambient Temperature	-20 ~ +70°C , full power output below 50C, Power derating 5%/°C above 50°C	
	Storage Temperature	-40°C ~ +75°C	
	Working Humidity	0 ~ 95%	
	Working Altitude	2000 m	
Standard	CCS PLC Communication	DIN70121 and ISO15118	
	CHAdeMO	CHAdeMO V1.2	
	GBT	GB/T 18487.1-2015, GB/T 27930-2015, GB/T 20234.1~3-2015	
	EMC/Safety	CE, EN61000-6-3/EN61000-6-1 Class A; EN 61851-1-2001/EN 61851-21-2001/EN 61851-22-2001	
	Protection Class	IP54/IK10	
Functional Interface	HMI	7" TFT Touch Screen LCD, RFID,Power(G) /Alarm(R) /3*Charging(Y) panel LED	
	Metering	1 AC energy meter and 2 DC energy meter, GB/T 50063-2008 and DL/T 5137-2008 standard	
	Communication Interface	OCPP 1.6J, LAN 10M/100M and optional inner LTE wireless modem support	
	Charging Mode	Auto basis, Time basis, Amount basis, Energy basis, SOC basis	
	Power Distribution	Standalone, Current switch, Plug switch, Full hold, Master Slave	
Mechanic	Dimension WxHxD (mm)	670 x 1660 x 500 (mm)	
	Weight (kg)	120kg (without power modules)	
Charging Protection	Multi Protection	Overcurrent protection, Short circuit protection, Overvoltage protection, Insulation monitoring, Protect Earth connect monitoring Reverse polarity protection, Overtemperature protection RCD-A main protection, Undervoltage protection,	
Configuration	Charger Module	4 charger power module slots	
	Charging Connector	2 CCS / 2 GBT / 1 CCS+1 CHAdeMO / 1 CCS+1 GBT	
	Charging Connector Capacity	200A/1000V for CCS, 125A/500V for CHAdeMO, 250A/750V for GBT	

*Optional