

EXP180K2-FD DC FAST Charger

CCS / CHAdeMO/ GBT 180kW



Introduction

EXP180K2-FD DC fast charger is specially designed for high protection and high reliability applications with CCS /CHAdeMO /GBT/ global standard EV charging. High integrated design and IP55 protection standard for harsh environment applications.

Max power up to 180kW and max current up to 300A and compatible with the voltage from 150V to 1000V.

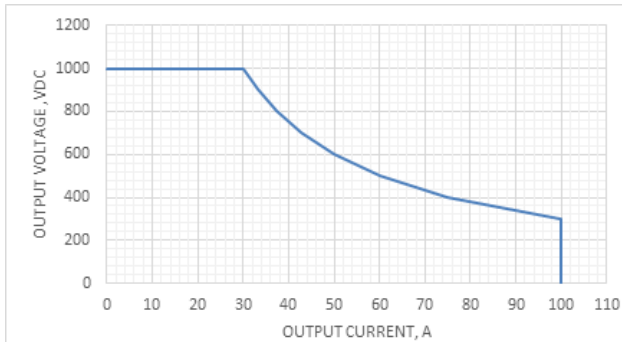


Main Features

- CCS1 or CCS2, CHAdeMO and GBT support.
- IP55 design with high protection and high reliability for harsh environment.
- OCPP 1.6 J support with update sw to 2.0, smart charge and power management support.
- Optional CoolRing™ function realize the power transfer between the two chargers which can get max 360kW in one charger
- Power can also transfer between the two DC connectors, and also can output at the same time for the two DC connectors
- Max output power up to 180kW and max current up to 300A, and compatible with the voltage from 150V to 1000V
- Full safety function with output contactor and fuse , EPO , SPD , RCD, leakage switch, insulation detector protection
- User friendly interface with tempered glass protective 7" TFT capacitive touch screen LCD
- Multiple charging modes: Auto basis, Time basis, Amount basis, Energy basis, SOC basis.
- Multiple power distribution modes: Stand alone, Current switch, Plug switch, Full hold, Master slave.
- Internal high precision DC energy meter, optional VDE and PTB certification type.
- LAN and optional LTE wireless support, OTA support, RFID authorization and Mobile App payment support


REG1K0100G/U 30kW1000V

Output Voltage VS Output Current




Two 180kW chargers CoolRing™ working :

Each charging connector can get max 180kW power.
Every 4 connector can all get 90kW power at the same time. One charger can get all 360kW power charging to one EV.




Day time with current mode for the power focus and high speed charging at any connector




Night time with plugging mode for the power dispense and average speed charging at every connector





Alone Car with current mode for the power focus and high speed charging at any connector



Multi Car with plugging mode for the power dispense and average speed charging at every connector

Input parameters	
AC Frequency	45-65Hz
AC Voltage	3-phases+N+PE , 260Vac-530Vac
Power Factor	>0.99
Total harmonic current	<5% (Rated input)
Max input AC current	291A/CE, 230A/UL
Output parameters	
DC Voltage accuracy	<±0.5%
Output DC voltage range	DC 150V-1000V
Max DC output current	600A@300V/ 360A@500V/ 180A@1000V Each charging cable's max output current is 200A/CCS (optional 250A CCS2 or 300A CCS1), 250A/GBT, 125A/CHAdEMO
Max DC output power	180kW
Max system efficiency	>95 (Rated input and output)
Working environment	
Ambient temperature	-20 ~ +70°C, full power output below 50°C , Power derating 5 /°C above 50°C
Storage temperature	-40 ~ +75°C
Working humidity	0 ~ 95%
Working altitude	2000 m.
Standard	
CCS PLC communication	DIN70121 and ISO15118.
CHAdEMO	CHAdemo V1.2
GBT	GB/T18487.1-2015, GB/T27930-2015, GB/T20234.1~3-2015
EMC/Safety	UL2202, CE, EN61000-6-3/EN61000-6-1 Class A; EN 61851-23/EN 61851-24
Protection Class	IP55/K10.
Function and Interface	
HMI	Tempered glass protective 7" TFT Touch Screen LCD , RFID , Power(G) /Alarm(R) /3*Charging(Y) panel LED
Metering	AC and DC energy meter, GB/T 50063-2008 and DL/T 5137-2008 standard, optional VDE and PDB certification type
Monitor 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 Mode	Stand alone, Current switch, Plug switch, Full hold.
Mechanic	
Dimension (W* H * D mm)	700 *1750 * 750 mm
Weight (Kg)	130+21*N Kg (N is the charger module configuration number)
Charging Protection	
Overcurrent protection, Short circuit protection, Overvoltage protection, Undervoltage protection Insulation monitoring, Protect Earth connect monitoring Reverse polarity protection, Overtemperature protection RCD-A main protection	
Configuration	
Charger module configuration	6 power module slots , 1000V30kW Charger power modules selection
Charging connector configuration	2 CCS /2GBT /1 CCS+1 CHAdemo / 1 CCS+1 GBT.
Charging connector capacity	CCS 200A/1000V. Optional 250A CCS2 and 300A CCS1, CHAdEMO 125A/500V, GBT 250A/750V