

EXP180K2-FT DC FAST CHARGER

CCS / CHAdeMO/ GBT 180kW/240kW

INTRODUCTION

EXP180K2-FT/EXP240K5-FT DC fast charger is specially designed for high protection and high reliability applications with CCS/CHAdeMO/GBT/global standard EV charging. The integrated design and IP55 protection make it applicable in even harsh environment. Maximum power reaches up to 180kW and 240kW, maximum current up to 300A, and the charger covers output voltage from 150V to 1000V.



MAIN FEATURES

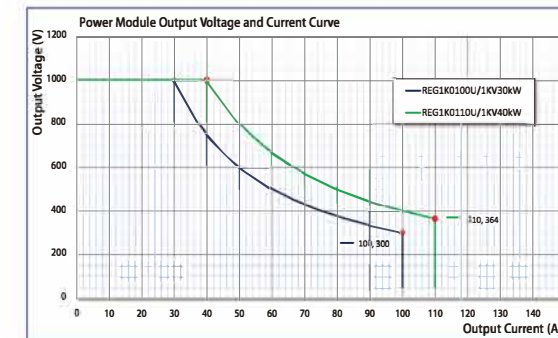
- ▶ CCS1, CCS2, CHAdeMO and GBT support
- ▶ IP55 design with high protection and high reliability for harsh environment
- ▶ OCPP 1.6 J support with update sw to 2.0, smart charge and power management support
- ▶ Optional CoolRing™ function realize the power transfer between the two chargers which can get both power 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 upto 180kW/240kW and max current upto 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 PDB certification type
- ▶ LAN and optional LTE wireless support, OTA support, RFID authorization, Mobile App payment and Credit Card support
- ▶ Optional cable re-tractors and charging statu RGB light

INFY POWER

2022.12 VER:2.0

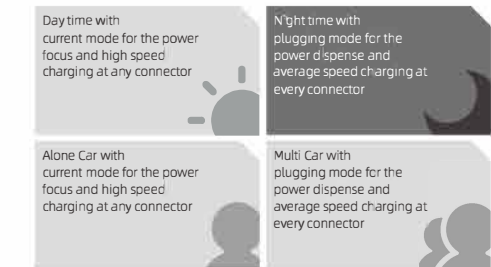
REG1K0100G/U 30kW1KV/ REG1K0110U 40kW1KV

Output Voltage VS Output Current



TWO 180KW CHARGERS COOLRING™ WORKING:

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



TECHNICAL PARAMETERS

Input parameters	EXP180K2	EXP240K5
AC Frequency	45-65Hz	
AC Voltage	3-phases+N+PE, 380/400Vac(±10%)	
Power Factor	>0.99	
Total harmonic current	<5% (Rated input)	
Total harmonic current	323A/CE, 228A/UL	420A/CE, 307A/UL
Output parameters	EXP180K2	EXP240K5
Output DC voltage range	<±0.5%	
Max DC output current	DC 150V-1000V	
Max DC output current	600A@300V/ 360A@500V/ 180A@1000V	659A@364V/ 480A@500V/ 240A@1000V
Constant power voltage range	200A1000V CCS (optional 250A CCS2 or 300A CCS1), 250A750V GBT, 125A500V CHAdeMO	
Max system efficiency	180kW	240kW
Optional AC charging output	>95.0% (Rated input and output)	
Working environment		
Ambient temperature	-25 ~ +70°C , full power output below 50°C , Power derating 5%/ °C above 50°C	
Ambient temperature	-40 ~ +75°C	
Storage temperature	0 ~ 95%	
Working altitude	2000 m	
Standard		
CCS PLC communication	DIN70121 and ISO15118	
CHAdeMO	CHAdeMO VI.2	
GBT	GB/T 18487.1-2015, GB/T 27930-2015, GB/T 20234.1~3-2015	
EMC/Safety	UL2202, CE, EN61000-6-3/EN61000-6-1 Class A ; EN 61851-1/EN 61851-23/EN 61851-24	
Protection Class	IP55 / IK10	
Function and Interface		
HMI	7" TFT tempered glass protective touch screen LCD, RFID, RGB panel LED	
Metering	DC energy meter, GB/T 50063-2008 and DL/T 5137-2008 standard, optional VDE and PTB certification type	
Monitor interface	OCPP 1.6J , LAN 10M/100M and LTE wireless modem support	
Charging Mode	Auto basis, Time basis, Amount basis, Energy basis, SOC basis	
Power distribution modes	Stand alone, Current switch, Plug switch, Full hold, Master slave	
Auxiliary function	Credit card reader installation. Charging cable tracer installation	
Mechanical		
Dimensions(W * H * D mm)	700 * 1750 * 750 mm	
Weight(Kg)	280 +21 * N (N is the charger module configuration number)	
Charging Protection		
Charger module configuration	Over current protection, Short circuit protection, Over voltage protection, Under voltage protection	
Charging connector configuration	Insulation monitoring, Protect Earth connect monitoring, Reverse polarity protection, Over temperature protection	
Charging connector capacity	RCD-A main protection , SPD protection	
Configuration		
Charger module configuration	6 power module slots, 1000V30kW power module for 180kW, 1000V40kW power module for 240kW	
Charging connector configuration	2 CCS / 2 GBT / 1 CCS+1 CHAdeMO / 1 CCS+1 GBT	
Charging connector capacity	Cable re-tractors and the charging status RGB light	