

EXP180K2-FD / EXP240K5-FD Fast DC Charger

180kW and 240kW DC charging power with two DC charging connectors + (o)22kW AC charging socket

Introduction

EXP180K2-FD and EXP240K5-FD DC charger is all in one design and fully compatible with CCS/ NACS/CHAdMO/GBT EV charging standard. It features small size, light weight and easy to install and move, user friendly interface, IP55 protection, robust and durable design for various outdoor applications. It can deliver up to 180kW and 240kW charging power and 150V to 1000V charging voltage.

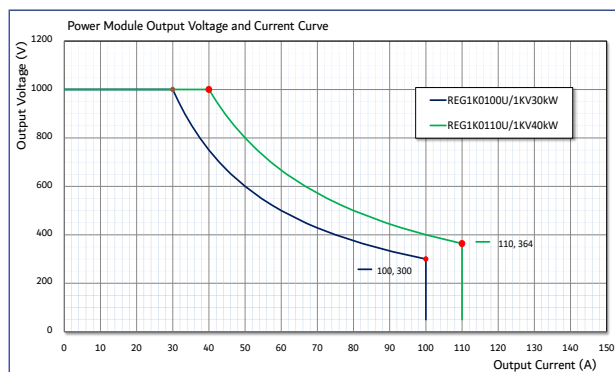
It can be engineered with optional 22kW/32A AC Type 2 charging socket and Eichrecht certification configuration.



Main Features

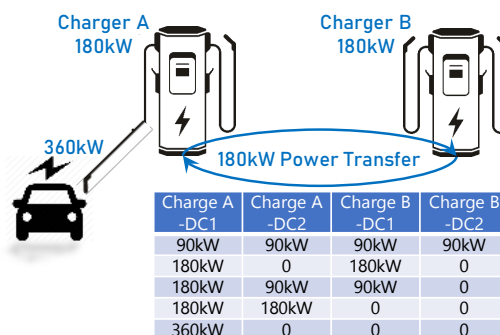
- CCS1 / CCS2 / CHAdMO / NACS/ GBT Global EV Charging standard support
- Optional 22kW AC Type 2 Charging socket configuration support
- CE, RED, CB and TUV US/CA certification, Energy Star certification, OCA certification
- OCPP 1.6 J support with update firmware to 2.0x, P&C, smart charge and power management support
- Optional NMI Eichrecht certification configuration, optional cable retractor and light bar
- 180kW and 240kW DC charging power and 150V to 1000V charging voltage
- IP55, IK10, -30°C~50°C ambient temperature full power charging
- Full safety function with output contactor and fuse,EPO,SPD,MCB, leakage switch,insulation detector protection
- RCD-B protection when configure the AC charging socket
- User friendly interface with tempered glass protective 7" TFT capacitive touch screen LCD and Three RGB LED
- WEB side Maintenance Backend System enhance the operation and maintenance effectiveness
- Simultaneous charge of two DC and AC charging connectors. Intellegent power switch and CoolRing™ support
- LAN and LTE wireless support, OTA support, RFID authorization, POS and Mobile App payment support

REG1K0100G 30kW/REG1K0110U 40kW Power Module



CoolRing™ work with two 180kW chargers

Each charging connector can get full 360kW power when CoolRing works



Input parameters			
AC Frequency	45-65Hz		
AC Voltage	3-phases+(N)+PE, 260Vac-530Vac		
Power Factor	>0.99		
Total harmonic current	<3% (Rated input)		
Output parameters	EXP180K2-FD	EXP180K2-FT	EXP240K5-FD
Output DC voltage range	DC 150V-1000V		
Max DC output current	600A@300V/ 360A@500V/ 180A@1000V		660A@364V/ 480A@500V/ 240A@1000V
Max DC output power	180kW		240kW
Constant power voltage range	300~1000V		364~1000V
Max system efficiency	>95% (Rated input and output)		
Optional AC charging output		AC Type2 32A/22kW/3P	
Working environment			
Ambient temperature	-30 ~ +70℃ , full power output below 50℃ , Power derating 5%/ ℃ above 50℃		
Storage temperature	-40 ~ +75℃		
Working humidity	0 ~ 95%		
Working altitude	2000 m		
Standard			
Backend	OCPP 1.6J, support firmware update to 2.0x, OTA support, P&C/ Smart charge/ Power management support		
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		
Certification	TUV US+CA, Energy Star, TUV CE, RED, CB, OCA , NMI EICHRECHT		
	UL2202, 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	Tempered glass protective 7" TFT Touch Screen LCD, three RGB LED, EPO		
Metering	DC energy meter, GB/T 50063-2008 and DL/T 5137-2008 standard, optional MID and NMI certification meter		
Monitor interface	LAN and LTE wireless modem support		
Optional CoolRing™ Power transfer	Realize the power transfer between two chargers, each charging connector can get the total charging power		
Power switch mode	Intelligent power switch matrix between two DC charging connectors,		
Payment	RFID, Mobil APP, POS(opt),		
MBE function support	WEB side Maintenance Backend System enhance the operation and maintenance effectiveness		
Mechanical			
Dimension (W * H * D mm)	700 * 1750 * 750 mm		
Weight (Kg)	260 Kg		
Charging Protection			
	Overcurrent protection, Short circuit protection, Overvoltage protection, Undervoltage protection		
	Insulation monitoring, Protect earth connect monitoring		
	Reverse polarity protection, Overtemperature protection		
	RCDB for AC charging socket configuration protection		
Configuration			
Total 6 Power Module Sockets			
Charger module configuration	REG1K0100U 30kW1000V charger power module		REG1K0100U 40kW1000V charger power module
Charging connector configuration	One or Two CCS/NACS/CHAdemo/GBT connectors configuration, optional AC type 2 charging socket		
Charging connector capacity	GBT: 250A/400A CCS2: 250A/375A CCS1: 300A NACS: 200A/300A CHAdemo: 125A/200A AC: 32A/22kW		
Optional cable management	Top assemble cable retractors and the light bar		