



Introduction

EXP180K2-HT Fast DC charger is specially designed for high protection and high reliability applications with CCS /CHAdeMO /AC Type 2 standard EV charging. Integrated design with IP55 standard for harsh environment applications. User friendly interface. Easily configure the power from 60 to 180kW, and compatible with the voltage from 500V to 1000V.

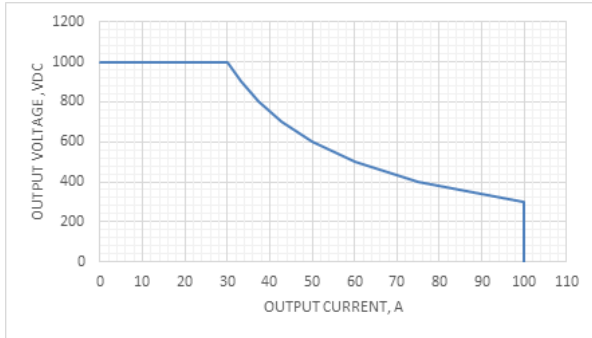


Main Features

- CCS1 or CCS2 and CHAdeMO support , AC Type 2 cable or socket support
- IP55 design with high protection and high reliability for harsh environment
- OCPP 1.6 J 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
- Easily configure the output power from 60kW to 180kW, and compatible with the voltage from 500V to 1000V
- Full safety function with output contactor and fuse, EPO, SPD, RCD, leakage switch, insulation detector protection
- User friendly interface with 7" TFT 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 AC energy meter and DC energy meter
- LAN and optional LTE wireless support, RFID authorization and Mobile App payment support

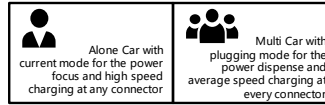
REG1K0100G 30kW1000V

Output Voltage VS Output Current



Two 180kW chargers ring net 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



Technical parameters

Input parameters

AC Frequency	45-65Hz
AC Voltage	3-phases+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	600A@300V, 360A@500V, 180A@1000V
Max DC output power	180kW
Max system efficiency	>95.0% (Rated input and output)
AC output	AC type2 22kW/32A

Working environment

Ambient temperature	-20 ~ +70°C , full power output below 45°C, Power derating 5%/ °C above 45°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/V2.0
EMC/Safety	UL2202, CE, EN61000-6-3/EN61000-6-1 Class B ; EN 61851-1-2001/EN 61851-21-2001/EN 61851-22-2001
Protection Class	IP55/K10

Function and 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
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, Master slave

Mechanical

Dimention (W * H * D mm)	650 * 1750 * 820 mm
Weight (Kg)	130 +21 * N (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 mian protection and RCD-B for AC connector protection

Configuration

Charger module configuration	6 power module slots, 1000V30kW Charger power modules selection
Charging connector configuration	2 CCS / 1 CCS+1 CHAdeMO / 1 CCS+1 GBT, AC type2 cable or AC type2 socket
Charging connector capacity	200A/1000V for CCS, 125A/500V for CHAdeMO, 250A/750V for GBT/ 32A for AC