

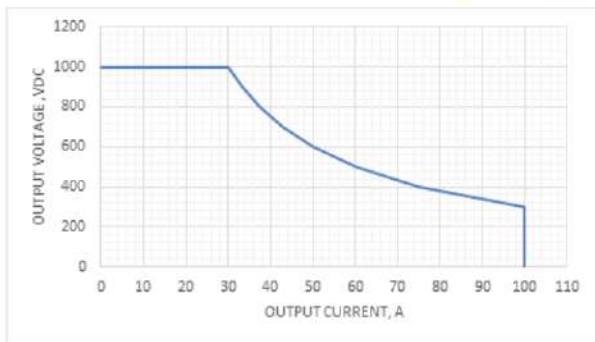
Introduction

EXP480K2-FF-C/EXP480K2-LD-D Split type high power charger is specially designed for the Operator split and multi EV charging point application with CCS/CHAdeMO/GBT standard. Max 1000V/480kW high power output and two dispensers with four charging connectors support. AnyCooling™ 500A liquid cooling charging solution and each charging connector can get max 480kW power with the CoolRing™ ring net power transfer between others.



Main Features

- CCS1 / CCS2 /CHAdeMO/GBT EV Charging standard support
- IP65 for the dispenser and IP54 for the power cube with high protection and high reliability for harsh environment
- Optional one CCS standard 500A liquid cooling charging connector in the dispenser with AnyCooling™ liquid cooling solution
- OCPP 1.6 J support and smart charge support
- CoolRing™ ring net power transfer between the 2 dispensers' each 4 connectors to improve the charging operation efficiency
- Easily configure the output power up to 480kW and the output voltage up to 1000V
- Full safety function with output contactor and fuse, EPO, SPD, leakage protection switch, insulation detect protection
- User friendly interface with tempered glass protective 7" TFT capacitive touch screen LCD
- Internal high precision DC energy meter, optional LEM MID DC energy meter
- LAN and LTE wireless support, RFID authorization and Mobile App payment support



Ring net power transfer



Two dispensers with four charging connectors ring net configuration. Each charging connector can get the max 480kW power and also can share the power to each connector.



Liquid cooling solution



The dispenser support DC-1 side 500A liquid cooling connector configuration with AnyCooling™ liquid cooling solution

Technical parameters

EXP480K2-FF-C 480kW Power Cube

AC input	AC input Frequency/ Voltage	45-65Hz/ 3-phases+N+PE / 260Vac-530Vac
	AC max input current	2 * 431A
	AC input distribution	AC Grid input with two channels input RCDA breaker and input contactor
	Power factor	>0.99
DC output	Total harmonic current	<5% (Rated input)
	Output DC voltage range	150V-1000V
	Max DC output power	480kW@300V~1000V
	Max DC output current	1600A@300V, 960A@500V, 521A@920V, 480A@1000V
	Max system efficiency	>95.0% (Rated input and output)
	Output channel	2 or 4 channels DC bus outputs with fuses as the input of the front charging dispensers
HMI	Dispenser support	Max 2 dispensers / 4 charging connectors connection
	RGB LED , E-STOP	
Mechanical	Dimention: W * H * D mm = 1000 * 1950 * 803 mm Weight: 180 + 21 * 18 = 558 kg (Full power modules)	
Protection Class	IP54/K10	
Power Module	Max 18 slots of 30kW/1000V power module, REG1K0100G for CE version, REG1K0100U for UL&CE version	

EXP480K2-LD-D 480kW Charging Dispenser

DC input	DC input Voltage range	150V~1000V
	DC input Channel	2 channels DC bus from the Power Cube
DC output	Output connector	2 connectors with DC-1 and DC-2
	Output DC voltage range	150V~1000V
	Max DC output power	480kW@300V~1000V
	Max DC output current	500A @300V, 960A@500V, 521A@920V, 480A@1000V (480kW Power Cube)
HMI	Ring net function support	All power can transfer to one connector and also can share to each 4 connectors with two dispensers
	Tempered glass protective 7" capacitive Touch Screen LCD , Power(G) /Alarm(R) /2*Charging(Y) panel LED , E-STOP , RFID	
Metering	2 DC energy meters , GB/T 50063-2008 and DL/T 5137-2008 standard, optional LEM MID DC energy meter	
Monitor	OCPP 1.6J and smart charge support , LAN 10M/100M and inner LTE wireless modem support	
	Charging and Billing Modes	Auto full charge, Charge time, Amount, Charge energy, Charge end SOC
	Charging Protection	Overcurrent/ Short circuit/ Overvoltage/ Undervoltage/ RCD / Insulation/ Overtemperature protection Reverse polarity protection
Mechanical	Dimention: W * H * D mm = 500 * 1750 * 320 mm Weight: 160 kg	
Charging connector configuration	2 GBT / 2 CCS / CCS + GBT / CCS+CHAdEMO	
Charging connector capacity	GBT: 250A/750V CCS: 200A/1000V CHAdEMO: 125A/500V	
Optional DC-1 left side charging connector can configure to the 500A/1000V liquid cooling connector, HUBER+SUHNER HPC 500 connector option		

Standard

Charging standard	GBT 27930-2011 and 27930-2015, CHAdemo V1.2/V2.0, DIN70121 and ISO15118
EMC/Safety	EN61000-6-3/EN61000-6-1 Class B EN 61851-1-2001/EN 61851-21-2001/EN 61851-22-2001

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