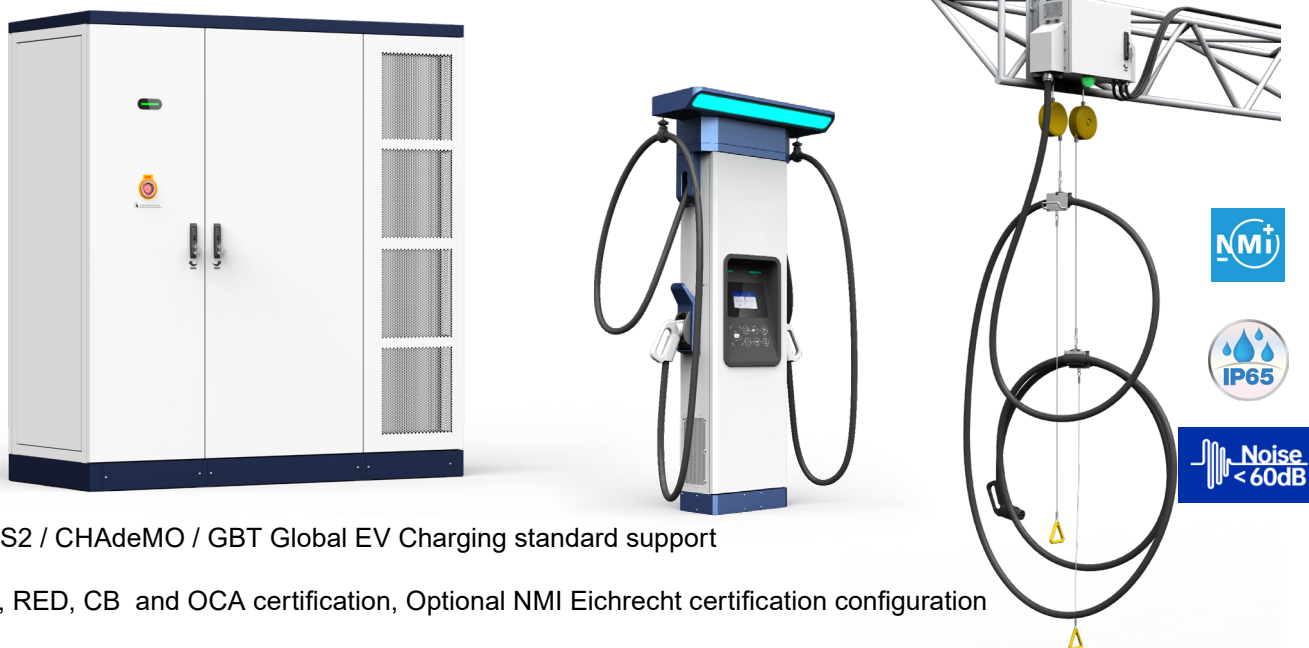


Liquid Cooled Split type High Power Charger

600kW Liquid cooled power cube/10 charging connectors, Overhead micro charging dispenser solution

Introduction

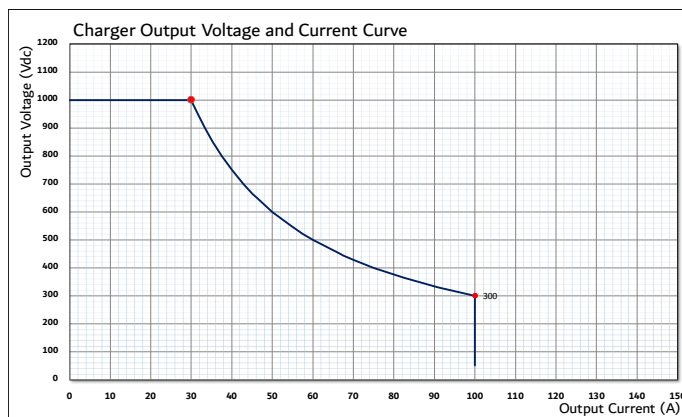
EXP600K4-LER Split type high power charger is specially designed for the EV charger operator with split and multi charging point application. CCS2/ CHAdeMO/ GBT standard, 600kW high power output and max 10 charging connectors to support 5 dual-connectors dispensers or 10 single-connector dispensers. Optional 500A liquid cooled charging connector and each charging connector can get max power through the intelligent power switching between power module groups to maximize the power efficiency. Full liquid cooled power module application for extreme high protection and high reliability . The overhead charging dispenser for the bus station solution is also available with the same power cube.



- CCS2 / CHAdeMO / GBT Global EV Charging standard support
- CE, RED, CB and OCA certification, Optional NMI Eichrecht certification configuration
- IP55 dispenser and IP65 power cube, offering extremely high protection and reliability for harsh environment and reducing the maintenance work to minimize TCO with robust quality assurance
- Optional two 500A liquid cooled charging connectors in each dispenser, full liquid cooled power module solution
- Overhead micro charging dispenser for the bus station solution
- WEB side Maintenance Backend System enhance the operation and maintenance effectiveness
- OCPP 1.6 J support with update firmware to 2.0x, P&C, smart charge and power management support
- Max 10 charging connectors with 5 dual-connectors charging dispensers or 10 single-connector charging dispensers
- Intelligent power switching matrix block for improved power sharing efficiency of multi EV charging channels
- Full liquid cooled solution can get min 60dB low noise to fit a wider range of applications
- Easily configure the output power from 300kW to 600kW and the output voltage up to 1000V
- User friendly interface with tempered glass protective 7" TFT capacitive touch screen LCD
- LAN and LTE wireless support, OTA support, RFID authorization, POS and Mobile App payment support



30kW Liquid Cooled Power module charging curve



POWER CUBE		EXP600K4-LER			
AC input	AC input Frequency/ Voltage	45-65Hz/ 3-phases+(N)+PE / 260Vac-530Vac			
	AC max input current	2 * 538A			
	Power factor	>0.99			
	Total harmonic current	<5% (Rated input)			
DC output	Output DC voltage range	150V-1000V			
	Max DC output power	600kW@300V~1000V			
	Max DC output current	2000A@300V, 1200A@500V, 600A@1000V			
	Max system efficiency	>95.5% (Rated input and output)			
	Output channel	Max 10 charging channels as the input of the charging dispensers			
	Dispenser support	Max 5 dual-connectors dispensers or 10 single-connector dispensers			
HMI	RGB LED , E-STOP				
Mechanical	Dimension: W * H * D mm = 2000 * 2200 * 850 mm Weight: 800kg + 20 * 30kg = 1400 kg (Full power modules and full liquid)				
Protection Class	IP65				
Noise	<60dB (@35°C, Rated input and output), Max noise <65dB				
Power Switch	Intelligent power switch between the power module groups, can switch to each output channels to maximize the power efficiency				
Power Module	Max 20 module slots	LRG1K0100G 30kW/1000V liquid cooled power module			
CHARGING DISPENSER		EXP200-FS-OH	EXP200-FD	EXP300-FD	EXP500-LD-/LLD
DC input	DC input Voltage range	150V~1000V			
	DC input Channel	1 channel DC bus	2 channels DC bus	2 channels DC bus	2 channels DC bus
DC output	Output charging connector	1	2	2	2
	Output DC voltage range	150V~1000V			
	Max DC output current	200A(Opt 250A)	2 * 200A(Opt 250A)	2 * 300A(Opt 375A)	500A+200A/Opt 500A
HMI	Tempered glass protective 7" capacitive Touch Screen LCD, RGB panel LED , E-STOP , RFID , POS (opt)				
Metering	DC energy meter, opt MIDI meter and Eichrecht certification configuration				
Monitor	OCPP 1.6J, support update to 2.0, P&C, smart charge and power management support , LAN 100M and LTE wireless modem				
Cable management	Top assembly two cable retractors and light bar				
MBE function support		WEB side Maintenance Backend System enhance the operation and maintenance effectiveness			
Charging Protection		Overcurrent/ Short circuit/ Overvoltage/ Undervoltage/ RCD / Insulation/ Overtemperature protection			
		Reverse polarity protection			
Mechanical	Dimension: W * H * D mm	600*1800*260/200kg/IP55/IK10			
Charging connector configuration		CCS	2*GBT/CCS/NACS or CCS+NACS/GBT/CHAdeMO or 1*GBT/CCS/NACS/		
Charging connector capacity		GBT: 250A(opt 400/600A) CCS: 200A(opt 250/300/375/500A) NACS: 200A(opt 380A) CHA:			
Noise		55 dB	0	0	55dB
Standard					
Charging standard	GBT 27930-2011 and 27930-2015, CHAdeMO V1.2/V2.0, DIN70121 and ISO15118, OCA				
EMC/Safety	CE/RED, CB, EN61000-6-3/EN61000-6-1 Class A ; EN 61851-1/EN 61851-23/EN 61851-24				
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				