

DC 480/600kW Charger (Split Type)



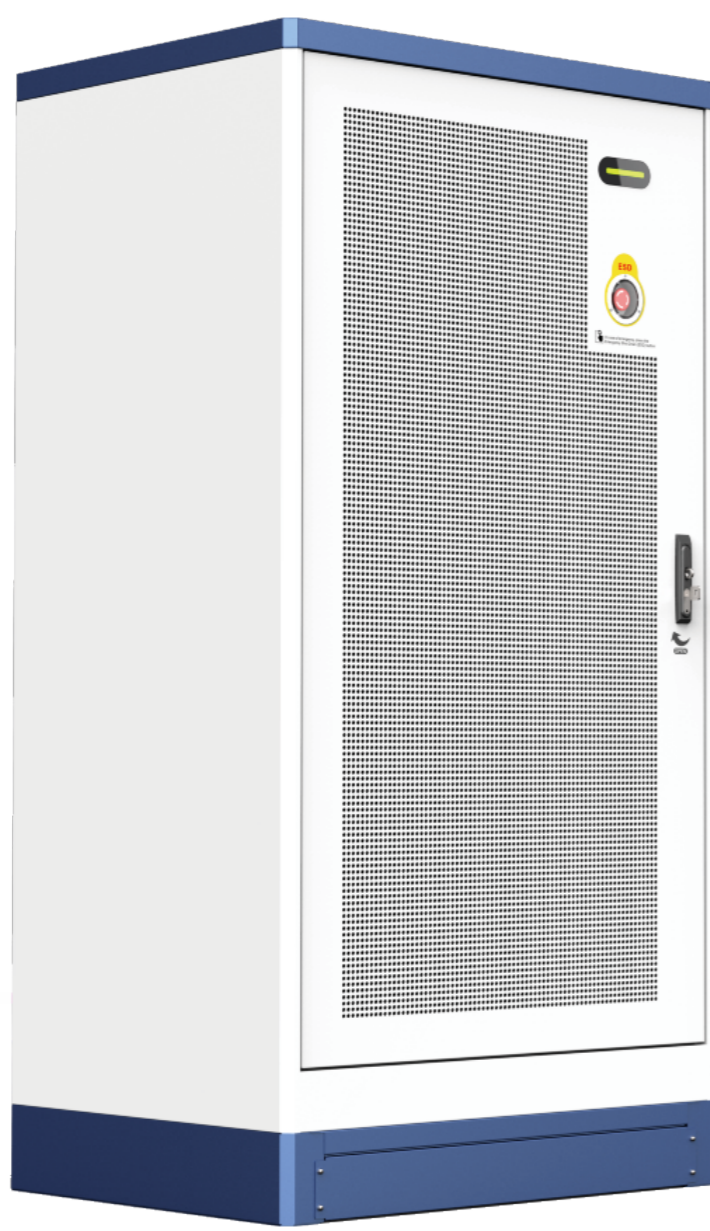
TÜVRheinland®



Charging Dispenser

Main Features

- CCS1 / CCS2 / CHAdeMO / GBT EV Charging standard support
- IP55 for the dispenser and IP54 for the power cube with high protection and high reliability for harsh environment
- One CCS / GBT standard 500A liquid cooling charging connector support with Any Cooling™ liquid cooling solution*
- 250A or 300A CCS normal charging connector for the balance of cost and charging capacity
- OCPP 1.6J support with update firmware to 2.0, smart charge and power management support
- Easily configure the output power up to 480/600kW and the output voltage up to 1000V
- Full safety function with output contactor and fuse, EPO, SPD, leakage protection switch, insulation detect protection
- 7" LCD & touch screen
- Internal high precision AC and DC energy meter, VDE and PTB certification type*
- LAN and LTE wireless support, RFID authorization and Mobile App payment support



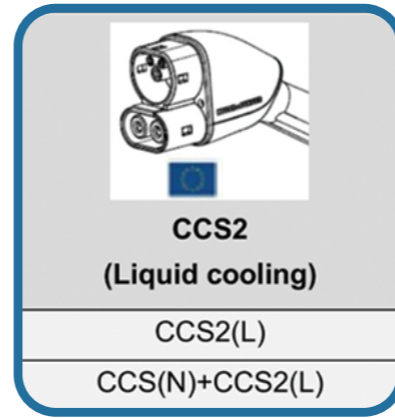
Power Cube



CCS2
(Natural cooling)
CCS2(N)
CCS2(N)+CCS2(N)

Natural Cool Cable

Maximum Output: 200A, 1000Vdc
Connector: CCS, CHAdeMO, GB/T



CCS2
(Liquid cooling)
CCS2(L)
CCS(N)+CCS2(L)

Liquid Cool Cable

Maximum Output: 500A, 1000Vdc
Connector: CCS, GB/T

Specification (Max 600kW, 1000VDC, IP54)

Product:	480kW Power Cube	600kW Power Cube	
Model:	EM480K2	EM600K3	
AC Input	AC Frequency & Voltage	45-65Hz/ 3-phases+N+PE/ 260Vac-530Vac	
	Max Input AC Current	CE: 2* 384A@380Vac	CE: 2* 480A@380Vac
	Power Factor	>0.99	
	Total Harmonic Current	<5% (Rated Input)	
DC Output	DC Output Voltage Range	150-1000V	
	Max DC Output Power	480kW@300V~1000V	600kW@364V~1000V
	Max DC Output Current	521A@920V	1760A@364V, 695A@920V(500A per output charging channel)
	Max System Efficiency	>95.0%(Rated Input and Output)	
	Output Channel	Max 8 Channels DC bus outputs with fuses as the input of the charging dispensers	Max 12 Channels DC bus outputs with fuses as the input of the charging dispensers
Dispenser Support	Max 4 dispensers/ 8 charging connectors connection	Max 6 dispensers/ 12 charging connectors connection	
HMI	RGB LED, E-Stop		
Mechanical	Dimension WxDxH(mm)	1000 x 800 x 2000 (mm)	1050 x 1150 x 2200 (mm)
	Weight (kg)	480kg (+21kg*Charger Module Configuration Number)	
	Protection Class	IP54/ IK10	
Power Module	REG1K0100G/U 30kW/ 1000V Power Module(Max 16 slot) REG1K0100G2/U 30kW/ 1000V Power Module(Max 20 slot)		

Charging Dispenser	EM200/250 FDC	EM300 FDC	EM400 FDC	EM500 LDC/LLDC	
DC Input	DC Input Voltage Range	150~1000V			
	DC Input Channel	2 channel DC bus			
DC Output	Output Connector	2			
	Output DC Voltage Range	150V~1000V			
Max DC Output Current	2*200A(opt 250A)	2*300A	2*375A	500A + opt 200A/300A/375A/500A	
HMI	Tempered glass protective 7" capacitive touch screen LCD for stand floor dispenser, RGB panel LED, E-STOP, RFID, POS(opt)				
Metering	DC energy meter, GB/T 29318 and JJG1149 standard, optional MID meter				
Monitor	OCPP 1.6J, support update to 2.0, P&C, smart charge and power management support, LAN 100M and LTE wireless modem support				
Cable management	Top assembly two cable retractors and light bar for stand floor dispenser. Select one or two cable retractors based on cable length for overhead dispenser				
MBE function support	WEB side Maintenance Backend System enhances the operation and maintenance effectiveness				
Charging protection	Overcurrent/short circuit/overvoltage/undervoltage/RCD/insulation/overtemperature protection, Reverse polarity protection				
Mechanical	Dimensions: W*H*D mm	500 x 1800 x 260 / 185 kg / IP55 / IK10		500*1800*260/195 kg/ IP55/IK10	
Configuration	2 x GBT/CCS/NACS or CCS+NACS/GBT/CHAdeMO or 1 x GBT/CCS/NACS/CHAdeMO				
Capacity	GBT: 250A (opt 400/500A) or CCS: 200A (opt 250/300/375/500A) or NACS: 200A (opt 300A/380A) or CHA: 125A (opt 200A)				
Noise	0			55 dB	

Common Specification		
Standard	Charging Standard	GBT 27930-2011 and 27930-2015, CHAdeMO V1.2/V2.0, Power derating 5%/°C above 50°C
	EMC/ Safety	EMC: EN IEC 61851-21-2:2021, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019 Safety: EN IEC 61851-1:2019, EN 61851-23:2014, EN 61851-24:2014
Working Environment	Ambient Temperature	-20°C~+70°C, Full power output below 50°C, power derating 5%/°C above 50°C
	Storage Temperature	-40°C~+75°C
	Working Humidity	0~95%
	Working Allitude	2000m

*Optional