

# DC 600/800kW Charger (Split Type)



TÜVRheinland®

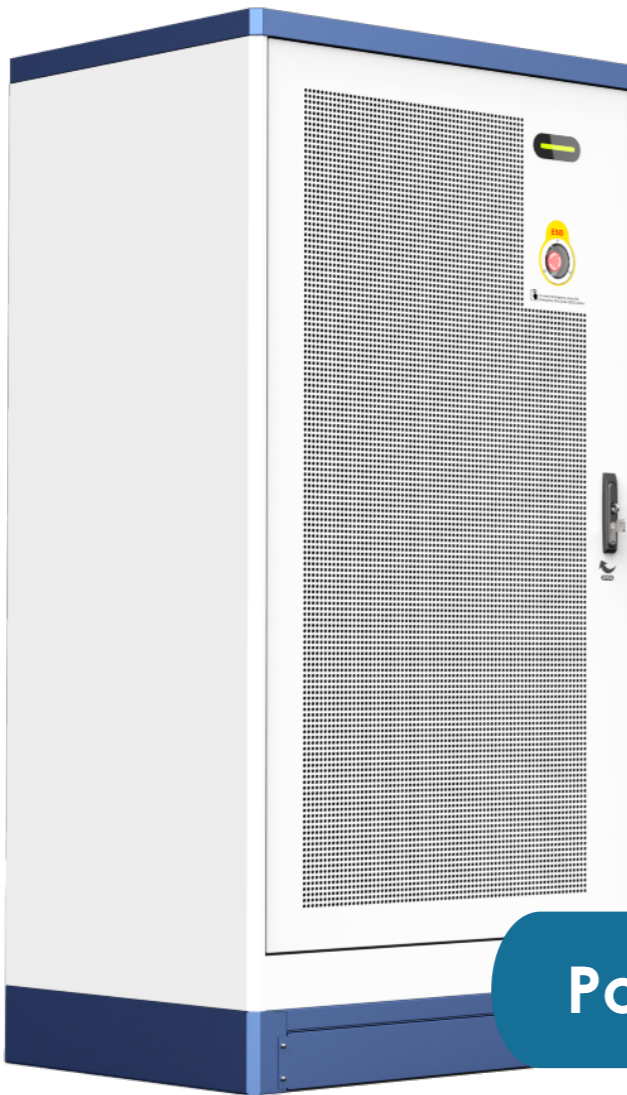


**Charging Dispenser**

## Main Features

- CCS1 / CCS2 / CHAdeMO / GBT EV Charging standard support
- IP55 for the dispenser and IP55/65 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 600/800kW 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

**EM600K4**



**EM800K6**



**Power Cube**

## Specification (Max 800kW, 1000VDC, IP55/65)

Product:		600kW Power Cube	800kW Power Cube
Model:		EM600K4	EM800K6
AC Input	AC Frequency & Voltage	45-65 Hz / 3-phases + (N) + PE / 260 Vac-530 Vac	45-65 Hz, 3-phase + (N) + PE, 380/400 Vac ±10%
	Max Input AC Current	CE: 2 x 480A@380Vac	CE: 2 x 640 A @ 380 Vac / UL: 2 x 506 A @ 480 Vac
	Power Factor	>0.99	>0.99
	Total Harmonic Current	<5% (Rated input)	<5% (rated input)
DC Output	DC Output Voltage Range	150 V-1000 V	150 V-1000 V
	Max DC Output Power	600 kW @ 300 V-1000 V	800 kW @ 300 V-1000 V
	Max DC Output Current	1760A@364V, 695A@920V(500A per output charging channel)	500 A for each output charging channel
	Max System Efficiency	>95.0% (Rated input and output)	≥96.5% (rated input and output)
	Output Channel	Up to 12 charging bus outputs (input for charging dispensers)	
Dispenser Support	Up to 6 dual-gun dispensers or 12 single-gun dispensers		
HMI	RGB LED, E-STOP		
Mechanical	Dimension WxDxH(mm)	2000 × 850 × 2200 mm	1050 x 1453 x 2200 mm
	Weight (kg)	1200+20×30kg=1400kg(full power modules and full liquid)	690+20×17kg=1030kg(full power modules)
	Protection Class	IP65 (power convert part)/ IK10	IP55/ IK10
Power Module	Max 20 Module Slots	LRG1K0100G 30 kW/1000 V liquid-cooled power module	REG1K0135G2 40kW/1000V power module

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 × 1800 × 260 / 185 kg / IP55 / IK10			500*1800*260/195 kg / IP55/IK10
Configuration	2 × GBT/CCS/NACS or CCS+NACS/GBT/CHAdeMO or 1 × 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 Altitude	2000m

\*Optional