![MaCharge logo]

Gems Series
DC Fast Charger

Product Description

This product has more powerful data calculation and processing capacity, smarter dispatching strategy, better heat dissipation performance and lower noise. It fully meets the requirements of hight-power DC charging of vehicles with European and Japanese standards.

The product has multiple protection design, which can monitor all communication data in the charging process then give early warning to all kinds of abnormal charging to ensure the safety of users and vehicles.

Hight Reliability
Low failure rate with low operation and maintenance costs.

Easy to use and profitable.

Hight Efficiency
Smart air duct design for low heart loss to reduce overall power consumption.

95% power efficiency.

Hight Safety
Dual protection strategy, no fire or electric shock risk. Safe network and supply.

Environmental Friendly
Low noise, low lifecycle cost, Friendly to environment.

Fast Charging
Constant power output at different voltage and temperatures.

Fast charging capability in all scenarios.

Dispatching power accoring to different demand.

Intelligent
Connect multiple operating devices information-based remote operation management.

Support soft simultaneous / dynamic charging.

Application scenarios

- Taxi, online-hailing cars
- Customized shuttle bus
- Public charging station
- Enterprises and institutions
- Bus
- Freight vehicles Special vehicles
- Residence commuity
- Commercial complex

Technical specifications

	Model	Emeral 80	Ruby 160	Supprine 240	Diamond 400
General	Dimension (W*D*H)	850*500*1800mm	850*610*2000mm	850*800*2000mm	850*1100*2000mm
	Installation	Groung mounted, indoor/outdoor			
	Certification	CE marking: complies with IEC 62196, IEC 61851EMC Compliance EU: EN55011, EN55022 and IEC61000-4Surge Protection: IEC 6100-4-5, Level 5 (6 kV @ 3,000A) or greater			
	Net weight	≤ 250 kg	≤ 350 kg	≤ 440 kg	≤ 580 kg
	Gross weight	≤ 300 kg	≤ 400 kg	≤ 530 kg	≤ 710 kg
	External packing	wooden case default, or customized			
Electrical Specification	Input voltage	400VAC±10%, 3-Phase+PE, 50/60Hz			
	Output voltage	200 - 1000 VDC (constant power range 300 - 1000 VDC)			
	Output current	167~200A	200A	300A	300A
	Output power	50~80kW	120~160kW	180~240kW	320~400kW
	Peak efficiency	≥ 95%			
	Harmonics	iTHD < 5%			
User Design	Power factor	>0.98 (50%~100% load)			
	Connector types	CCS2 / CHAdMo / GBT			
	LED indicator	Yes			
	HM	10.1 inch touch screen, language English default, other language optional			
	Payment mode	Optional: QR code / RFID card / POS			
Communication	Energy meter	MID or DC metor			
	Balancer	Optional			
	Charger V.S.EV	PCL (DIN 70121: 2014-12 / ISO 15118)			
	Protocol	OCPP 1.6 / OCPP 2.0 (upgradeable)			
Environment	Network	Ethernet / 4G-5G / WIFI			
	Operating temp.	-30 to + 50°C			
	Storage	-40 to + 75°C			
	Relative humidity	5 to 90% RH, non-condensing			
	Altitude	2000 m			
	Cooling	Smart air cooling			
Protection	Noise	≤ 55dB	≤ 60dB	≤ 60dB	≤ 55dB
	Protection grade	IP54			
	Multiple protection	RCD, over/under voltage protection, overload protection, short circuit protection, over temperature protection, grounding protection, surge protection.			