

IDS120K3-FD / IDS160K6-FD Fast DC Charger

120kW and 160kW DC charging power with two DC charging connectors

Introduction

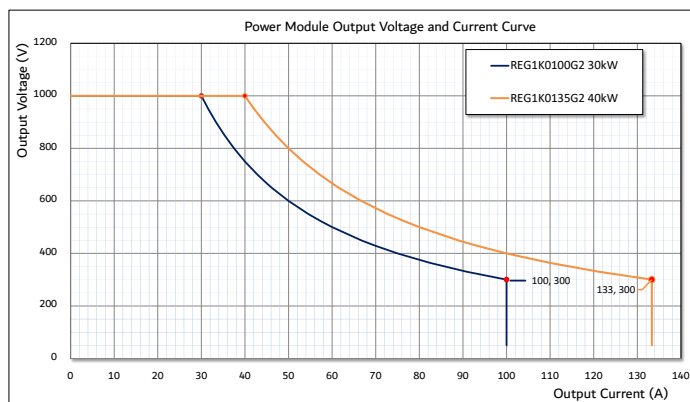
IDS120K3 and IDS160K6 DC charger is all in one design and fully compatible with CCS2/CHAdemo/GBT EV charging standard. It features small size, light weight and easy to install and move, user friendly interface, IP55 protection, robust and durable design for various outdoor applications. Patent U-shaped air flow design for lower than 60dB noise. It can deliver up to 120kW or 160kW charging power and 150V to 1000V charging voltage. It can be engineered with CoolRing™ function to realize power transfer between two chargers



Main Features

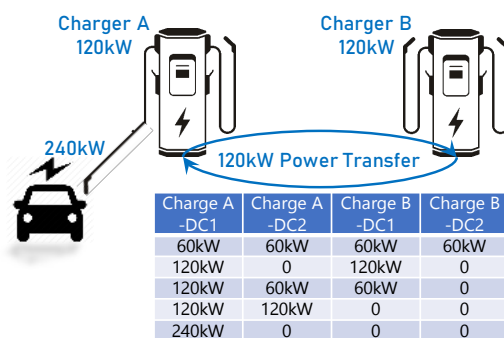
- CCS2 / CHAdemo / GBT Global EV Charging standard support
- Intelligent power switch matrix realize each power module's output between the two connectors
- CE, RED, CB and OCA certification
- OCPP 1.6 J support with update firmware to 2.0x, P&C, smart charge and power management support
- Optional cable retractor
- 120kW and 160kW DC charging power and 150V to 1000V charging voltage
- IP55, IK10, -30℃~50℃ ambient temperature full power charging
- Full safety function with output contactor and fuse, EPO, SPD, MCB, leakage switch, insulation detector protection
- Optional CoolRing™ function realizes power transfer between two chargers to get max 240kW or 320kW in one charging connector
- User friendly interface with tempered glass protective 7" TFT capacitive touch screen LCD and Three RGB LED
- WEB side Maintenance Backend System enhance the operation and maintenance effectiveness
- Innovative U-shaped air duct design can realize the 60dB noise at the full load and high temperature
- LAN and LTE wireless support, OTA support, RFID authorization, POS and Mobile App payment support

REG1K0100G2 30kW & REG1K0135G2 40kW Power Module



CoolRing™ work with two 120kW chargers

Each charging connector can get full 240kW power when CoolRing works



Input parameters

AC Frequency	45-65Hz	
AC Voltage	3-phases+(N)+PE, 260Vac-530Vac	
Power Factor	>0.99	
Total harmonic current	<3% (Rated input)	

Output parameters

	IDS120K3-FD	IDS160K6-FD
Output DC voltage range	150V-1000V	
Max DC output current	250A	250A
Max DC output power	120kW	160kW
Constant power voltage range	300~1000V	
Max system efficiency	>95.5% (Rated input and output)	>96.5% (Rated input and output)
Noise	<60dB @rated input and output, 35°C, full power	

Working environment

Ambient temperature	-30 ~ +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

Standard

Backend	OCPP 1.6J, support firmware update to 2.0x, OTA support, P&C/ Smart charge/ Power management support
CCS PLC communication	DIN70121 and ISO15118
CHAdeMO	CHAdeMO V1.2
GBT	GB/T 18487.1-2015, GB/T 27930-2015, GB/T 20234.1~3-2015
Certification	TUV CE, RED, CB, OCA
	EN61000-6-3/EN61000-6-1 Class A; EN 61851-1/EN 61851-23/EN 61851-24
Protection class	IP55/IK10

Function and Interface

HMI	Tempered glass protective 7" TFT Touch Screen LCD, three RGB LED, EPO
Metering	DC energy meter, GB/T 50063-2008 and DL/T 5137-2008 standard, optional MID meter
Monitor interface	LAN and LTE wireless modem support
Optional CoolRing™ Power transfer	Realize the power transfer between two chargers, each charging connector can get the total charging power
Power switch mode	Intelligent power switch matrix realize each power module's output between the two connectors
Payment	RFID, Mobil APP, POS(opt),
MBE function support	WEB side Maintenance Backend System enhance the operation and maintenance effectiveness

Mechanical

Dimension (W * H * D mm)	750 * 1700 * 435 mm
Weight (Kg)	260 Kg

Charging Protection

	Overcurrent protection, Short circuit protection, Overvoltage protection, Undervoltage protection
	Insulation monitoring, Protect earth connect monitoring
	Reverse polarity protection, Overtemperature protection
	RCDA and AC input contactor protection

Configuration

Charger module configuration	4 * REG1K0100G2 30kW1000V charger power module	4 * REG1K0135G2 40kW1000V charger power module
Charging connector configuration	One or Two CCS2/CHAdeMO/GBT connectors configuration	
Charging connector capacity	GBT: 250A CCS2: 250A CHAdeMO: 125A	
Optional cable management	Two top assembly cable retractors	