

EXP60K3-FT DC FAST CHARGER

CCS /CHAdeMO /GBT 60kW, AC 22kW



INTRODUCTION

EXP60K3-FT Fast DC charger is specially designed for easy wall mounting or pedestal installation applications with CCS / CHAdeMO /GBT/AC Type 2 standard EV charging. Integrated design with IP55 protection makes it suitable for harsh environment. The charger can configure the power to DC 60kW and AC 22kW, the voltage from 150V to 1000V. It also supports 44kW V2G configuration.



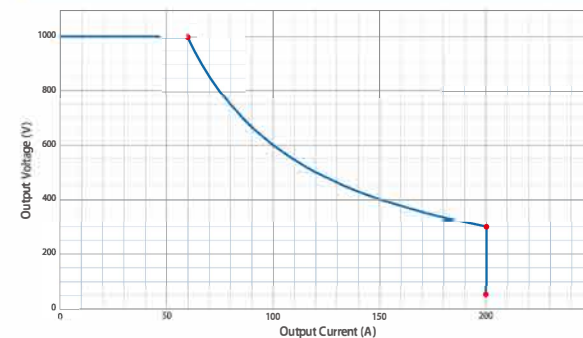
■ Main Features

- ▶ CCS1 or CCS2 , CHAdeMO and GBT configure support, optional AC Type 2 cable support
- ▶ IP55 design with high protection and high reliability for harsh environment
- ▶ Wall mounted, and optional pedestal installation
- ▶ EMC Class B, TUV CE and UL certification
- ▶ OCPP 1.6J and DIN/ISO15118 support, OCPP 2.0 and ISO15118-20 support with the SW update
- ▶ Power can transfer between the two charging cables and also can output at the same time for the two charging cables
- ▶ 60kW charging capacity, charging voltage from 150V to 1000V
- ▶ Optional 44kW V2G configuration, support CHAdeMO and CCS standard
- ▶ User friendly interface with tempered glass protective 7" TFT capacitive touch screen LCD
- ▶ Multiple charging modes: Auto basis, Time basis, Amount basis, Energy basis, SOC basis
- ▶ Internal high precision AC energy meter and DC energy meter, optional VDE and PTB certification type
- ▶ LAN and optional LTE wireless support, OTA support, RFID authorization and Mobile App payment support
- ▶ Simultaneous charge of two DC connectors and AC connector
- ▶ A lamp positioning design on pedestal helps a quick identification and the pedestal cable re-tractors help realizing good cable management

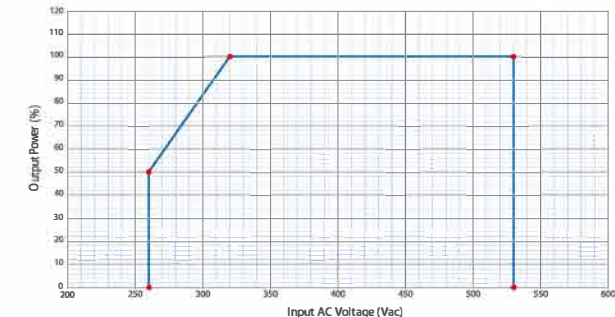
INFY POWER

2022.12 VER:2.0

Charger Output Voltage and Current Curve



Charger Output Power and AC Input Voltage Curve



TECHNICAL PARAMETERS

Input parameters	
AC Frequency	45-65Hz
AC Voltage	3-phases+N+PE, 260Vac-530Vac
Power Factor	>0.99
Total harmonic current	<5% (Rated input)
Output parameters	
DC Voltage accuracy	<±0.5%
Output DC voltage range	DC 150V-1000V
Max DC output current	60A/1000V, 80A/750V, 120A/500V, 200A/300V Each charging cable's max output current is 200A/CCS, 200A/GBT, 125A/CHAdeMO
Max DC output power	60kW
Max system efficiency	>95% (Rated input and output)
AC output (Optional)	AC Type 2 cable, 22kW/32A
Working environment	
Ambient temperature	-20 ~ +60°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	
CCS PLC communication	DIN70121 and ISO15118, ISO15118-20 support in SW update
CHAdeMO	CHAdeMO V1.2, EVPOSSA, CHAdeMO V2.0 support in SW update
GBT	GB/T 18487.1-2015, GB/T 27930-2015, GB/T 20234.1~3-2015
EMC/Safety	UL2202:2009 R2.18 CAS C22.2 No.107.1-16; EN IEC 61851-1:2019/EN 61851-23:2014/EN61851-24:2014; EN IEC 61851-21-2:2021
Optional V2G grid connection	VDE-AR-N 4105, UL1741SA/SB
Protection Class	IP55/IK10
Function and Interface	
HMI	Tempered glass protective 7" TFT Touch Screen LCD, RFID, Power(G) /Alarm(R) /3*Charging(Y) panel LED
Metering	DC energy meter , GB/T 29318-2012 standard, optional VDE and PTB certification type
Monitor interface	OCPP 1.6j , LAN 10M/100M and optional inner LTE wireless modem support, OCPP 2.0 support in SW update
Charging Mode	Auto basis, Time basis, Amount basis, Energy basis, SOC basis
Power Distribution Mode	Stand alone, Current switch, Plug switch, Full hold
Mechanical	
Dimensions(W * H * D mm)	1100 * 705 * 240 mm (wall mounting model) / 2127 * 950 * 392 mm (pedestal model)
Weight(Kg)	150kg(including the power modules and with 3 connector configuration)
Charging Protection	
Overcurrent protection, Short circuit protection, Overvoltage protection, Undervoltage protection	
Insulation monitoring, Protect Earth connect monitoring	
Reverse polarity protection, Overtemperature protection	
RCD-A main protection and RCD-B for AC connector protection	
Configuration	
Charger module configuration	2 charger power module slots, REG1K0100G2 1000V30kW, or V2G power module BEG1K075G 1000V22kW
Charging connector configuration	2 CCS /2GBT /1 CCS+1 CHAdeMO / 1 CCS+1 GBT, AC Type 2 cable
Charging connector capacity	200A/1000V for CCS, 125A/500V for CHAdeMO, 200A/1000V for GBT, 32A for AC Type2
Optional Pedestal	Pedestal with two cable re-tractors and the charging status RGB light