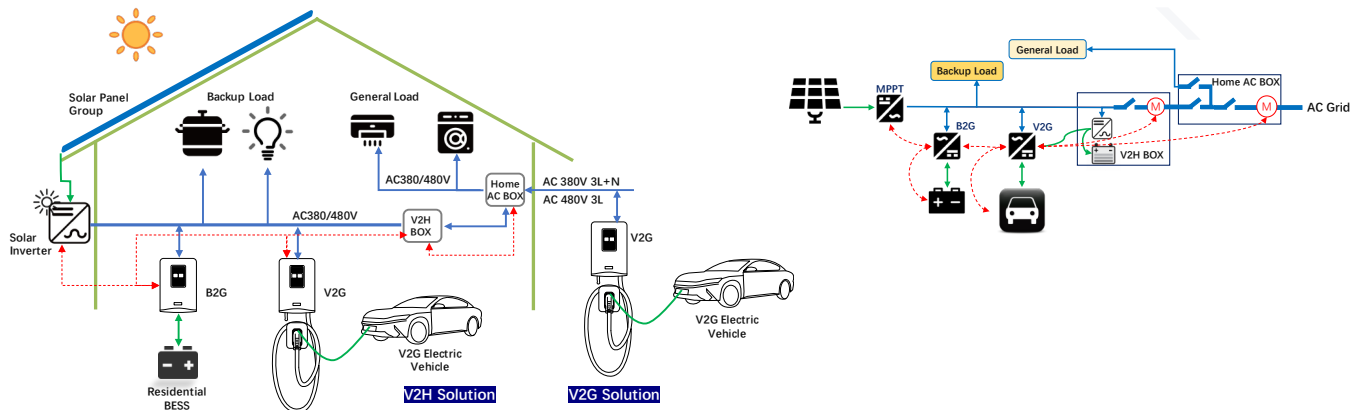


EXP11K1E-FSW



11kW 1000V Three Phase V2G/V2H DC Wallbox Charger



Introduction

EXP11K1E is the bidirectional 11kW DC wall box for V2G/V2H and B2G/B2H applications, to connect the EV battery or the residential energy storage battery to the three phase AC grid to realize the EV dis/charging V2G function and Home power backup V2H function. These V2G/V2H and B2G/B2H functions enable EV battery and residential battery to be used for grid energy storage, backup power supply and smart grid node.

Main Features



Inside high frequency transformer isolation to enhance safety



Residential using with low noise, <60dB, EMC class B



Max efficiency is higher than 96.0%



WEB/APP Maintenance Backend System enhances the operation and maintenance effectiveness



Low standby power consumption, less than 20W



IP65

Unique Function

- 11kW DC charger with AC three phase for CCS, NACS, CHAdeMO or GBT standard
- V2G, V2H, B2G, B2H configuration
- V2H Box to realize the off grid power backup
- Wide DC voltage range from 150V to 1000V
- One key manual charging and discharging

Application

- V2G EV charger
- B2G Energy storage battery inverter
- V2H/B2H application with optional off grid V2H box
- Residential off grid backup power supply



Technical Parameters

Environmental		Ambient temperature	-40°C~+75°C, derating from 45°C
		Cooling	Fan cooling
		Altitude	2000m
Charging mode	AC input	Input voltage & current	380/400/480Vac, 3L+(N)+PE; 16.7A
		Input voltage/frequency range	260Vac~530Vac, 45Hz~65Hz
		Power factor	≥0.98 full-load output power of @50%-100%
		THD	≤5% full-load output power of @50%-100%
	DC output	Rated power	11kW
		Voltage and current range	200Vdc~1000Vdc, 0~37A
		Efficiency (max)	≥96.0%
AC box		If no V2H box, need this Box	AC energy meter, SPD, AC distribution
Charging and V2G mode convert time (battery test)			100ms
V2G mode	DC input	DC input voltage and output power	150Vdc~1000Vdc, 11kW
		Max input current	37A
	AC output	Output AC voltage and output power	From 320 to 530Vac, ouput power is 11kW
		Rated power and current	11kW/16.7A
		Output AC frequency	50Hz/60Hz
		THDi/output power factor	<5%/user setting, 0.8 leading~0.8 lagging
		Efficiency (max)	≥95.5%
	Off grid	Voltage accuracy and distortion	1% and <3%/off grid only support 380Vac
		Power factor	0.8~1
		Dynamic volt stability & recovery time	5% and 20ms
V2H box	V2H box	Bidirectional Mid AC energy meter, SPD, AC distribution	
	(optional)	PV inverter connection, grid switch connector, backup 24V/5Ah battery	
		Grid connection	Power switch in the main grid, backup grid and V2G charger by AC contactor
Protocol standard		OCPP 1.6J/OCPP 2.0, ISO15118/ISO15118-20, CHAdeMO V1.2, EVPOSSA, optional EEBUS	
B2G wallBox converter		Battery side: charge/discharge voltage 150~1000V, max power 11kW, max current 37A	
		AC side: 320 Vac~530 Vac, 45 Hz~65 Hz, max current 16.7A, grid connection standard: same to V2G	
Control		Monitor interface	LAN 10M/100M and LTE wireless modem support
		Charging indication RGB light bar	Green-normal, Yellow-charging, Blue-discharging, Red-failure
		HMI	Tempered glass protective 5" TFT Touch Screen LCD, RFID support
		Metering	Bidirectional Mid AC energy meter in optional V2H box
		Hot key	One EPO key, one V2G action key
Reliability and safety		Protection	IP65, IK10 for cabinet and IK08 for LCD
		EMC/safety	TUV CE, RED, EN61000-6-3/EN61000-6-1 Class B ; EN 61851-1/EN 61851-23/EN 61851-24; cTUVus, UL2202
Grid connection	Certification	VDE-AR-N 4105, EN50549, AS4777.2, UL1741SB: 2021, CSA C22.3 No. 9 and CSA C22.2 No. 107.1	
Mechanical		Dimensions/weight	705mm(H)×405mm(W)×230mm(D)/≤45 kg (including the charging connector)
Charging cable configuration		40A/1000V for CCS1/2, 37A/500V for CHAdeMO, 40A/1000V for GBT, 50A/1000V for NACS	
Optional pedestal		Pedestal with cable retractors	