

## Hybrid All-in-One Energy Storage System

### BESS 125-271-240



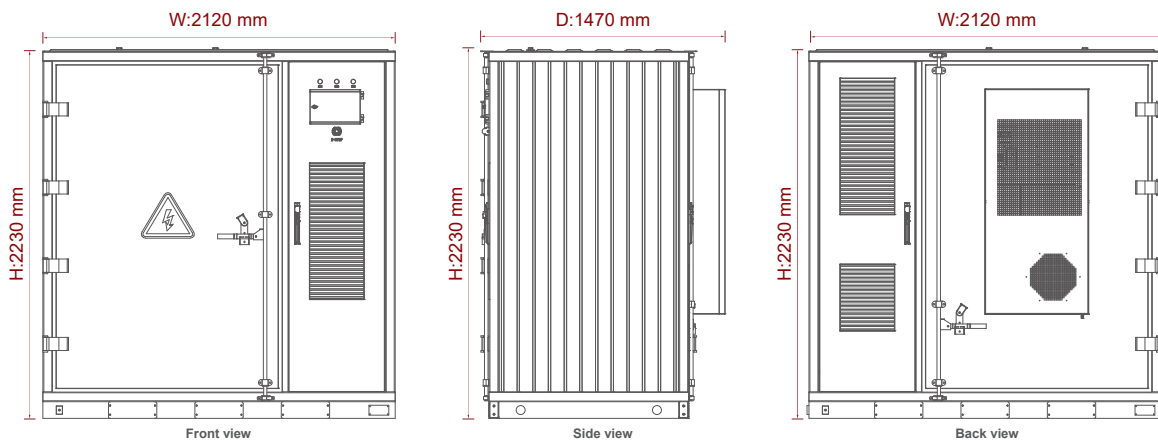
#### • Features

- Two level BMS built-in.
- Intelligent thermal management system
- IP55 fire and explosion proof cabinet.
- Fire proof devices in each modular and in the cabinet.
- Easy for on site installation.

#### • Product Introduction

**YIY BESS 125-271** all-in-one commercial and industrial ESS integrates PCS, BMS, EMS, battery, intelligent thermal management, power distribution, fire protection, etc. Its all-in-one design facilitates installation and O&M. Also, the system's safety design ensures better battery performance and longer service life. Multiple cabinets can be directly connected in parallel for system expansion.

#### • Product Dimensions



• Technical Parameter

BESS 125-271-240		
Battery Parameters		
Battery Module	Voltage	57.6V
	Capacity	314 Ah
	Energy	18 kWh
	Cooling method	Intelligent constant temperature system
Battery Cluster	Rated voltage	864V
	Grouping method	1P 270 S
	Rated capacity	314 Ah
	Output voltage range	756V~950V
	Rated energy	271kWh
	Max continuous charging current	157 A
	Max continuous discharge current	157 A
Work Environment	Charging operation temperature range	0~45°C
	Working humidity	RH≤80%
	Storage humidity	RH≤80%
Cabinet	Protection level	IP54
PCS Parameters		
PCS Parameter	Rated current	181A
	PCS overload capacity	x1.1 continuous;x1.25(30ms)
	PCS output power	125kW
	AC-side voltage of PCS	3P/N/PE, 230 V / 400 V
	Frequency	50Hz/60Hz
	Power factor	-1~1
	Battery side voltage	680V-950 V
STS	Rated power	170KVA
	AC voltage	400V/230V(-20%~15%)
	Frequency	50Hz/60Hz(±5Hz)
	Max AC current	250A
MPPT	PV side	
	Max power	120kW*2
	MPPT voltage range	200V-950V
	Rated voltage	600V
	Startup voltage	250V
	PV input string	4
	PV Max current	50A+50A+50A+50A
	Short-Circuit Current	60A+60A+60A+60A
	High voltage side	
	Voltage range	500V-950V
	Rated voltage	680V
Max current	180A	
Parallel	Parallel No.	Max 5 pcs
System Parameters		
System Parameters	Dimension(W*D*H)	2120*1470*2230mm
	Weight(kg)	/
	Display	7-inch Resistive Touch Screen
	Fire protection systems	Aerosol Fire Module
	Degree of protection	IP54
	Certification	CE;IEC62619;UN38.3
	Working temperaturerange	-30~60°C(> 45°C derating)
	Cooling	Intelligent Thermal Management System
	Relative humidity	5~95%(No Condensing)
	Highest altitude	4000m(>2000m derating)