

BESS

PV-ESS-Diesel On/Off-Grid All-in-One System

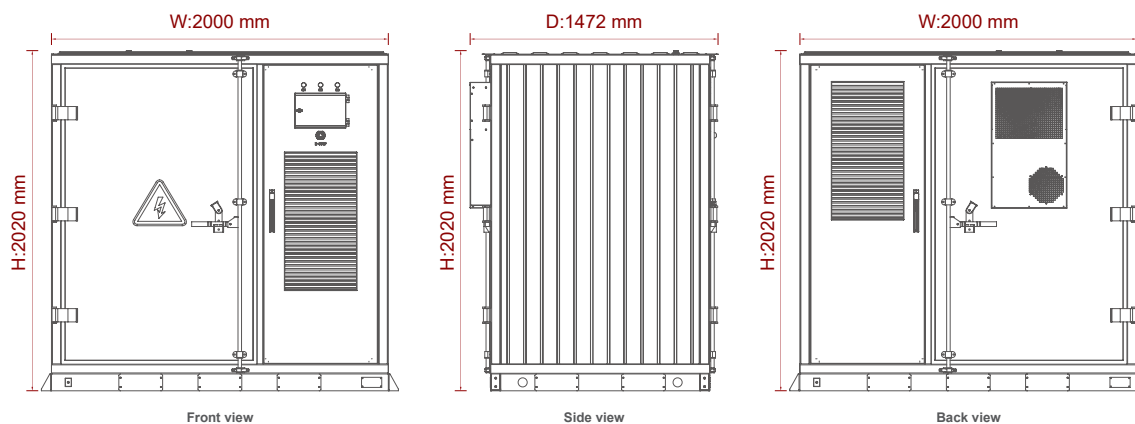
BESS 100-217-120



• Features

- All-in-one design with a high degree of integration.
- Modular design with optional modules of different sizes.
- Support for grid-connected and off-grid operation.
- MPPT Solar controller available as an option.
- IP54 class fire and explosion-proof housing.
- Patented air duct design, Dry Self-Cooling, 3-5°C temperature difference of the battery cell.

• Product Dimensions



• Technical Parameter

BESS 100-217-120				
Battery Parameters				
Battery Module	Voltage	57.6V		
	Capacity	314 Ah		
	Energy	18 kWh		
	Cooling method	Dry Self-Cooling		
Battery Cluster	Rated voltage	691.2V		
	Grouping method	1P 216 S		
	Rated capacity	314 Ah		
	Output voltage range	604.8V~766.8V		
	Rated energy	217.03kWh		
	Max continuous charging current	157 A		
	Max continuous discharge current	157 A		
Work Environment	Charging operation temperature range	-30~60℃		
	Discharging operation temperature range	-30~60℃		
	Working humidity	RH≤80%		
Storage Environment	Short-term storage temperature(<1month)	-20~55℃		
	Storage humidity	RH≤80%		
PCS Parameters				
PCS	Rated current	145A		
	PCS overload capacity	x 1.25(100S)		
	PCS output power	40kW	60kW	100kW
	AC-side voltage of PCS	2P/N/PE	3P/N/PE、3P/PE	
		120V/240V	208V/220V/240V	380V / 400V/415V
	Frequency	50Hz/47Hz~52Hz(60Hz/57Hz~62Hz)		
	Power factor	-1~1		
	Battery side voltage	648VDC-770VDC		
Parallel	Parallel	Max 5 PCS		
STS	Switching time	<10 ms		
PV	Max power	120kW		
	MPPT voltage range	200V-950V		
	Rated voltage	600V		
	Starting voltage	250V		
	Number of MPPTs	4		
	Maximum DC input current	50A+50A+50A+50A		
	Maximum short-circuit current of PV	60A+60A+60A+60A		
System Parameters				
System Parameters	Dimension(W*D*H)	2000*1472*2020mm		
	Weight(kg)	< 2900		
	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℃(> 45℃ derating)		
	Cooling	Dry Self-Cooling		
	Relative humidity	5~95%(No Condensing)		
	Highest altitude	4000m(>2000m derating)		