

SP-BESS Series 64~112kWh

Mini C&I 314Ah Battery Cabinet



Solution for Fast Install

Fully integrated, pre-configured package system reduces on-site installation time; includes inverter(s), battery trays, racks, BMS, Microgrid Controller, HVAC, fire suppression, islanding switch, and outdoor rated enclosure.

Easy & Flexible to Scale

The modular design allows for easy capacity expansion. The rack-mounted design allows for installation in various settings. A single Smart BMS can support standard 5sets to 560kWh, max 32sets to 3584kWh via HUB sets.

Safe Technology & Multi-level Protection

Tier 1 LiFePO4 Phosphate chemistry for the highest level of safety, thermal stability, and reliability; An integrated, multi-level Battery Management System(BMS) monitors, optimizes, and balances the system.

Powerful Performance

Supports a rated DC power of 140A -160A charge & discharge range.

Basic Information	SP-BESS-64kWh	SP-BESS-80kWh	SP-BESS-96kWh	SP-BESS-112kWh
Rated Energy (kWh)	64.30	80.38	96.46	112.54
Normal Voltage (V)	204.8	256.0	207.2	358.4
Voltage Range (V)	184~392			
Rated Energy of Battery Pack (kWh)	16.07			
Battery Pack Qty	4	5	6	7
Nominal Voltage of Battery Pack (V)	51.2			
Nominal Capacity (Ah)	314			
Battery Cell Qty of Battery Pack	16			
Communication Protocol	CAN/RS485			
Max. Qty of Parallel Connections	5 Sets(Standard), 32 Sets(Extra BAU module)			
Cycle Life	≥8500(@25℃±2℃, 0.5C/0.5C, 70%EOL)			
Protection Mechanism	Short Circuit Protection/Over Current Protection/Over Charge Protection/Over Discharge Protection/Over Temperature Protection/Cell Over Voltage Protection/Cell Under Voltage Protection			

Charging Parameters

Recommended Charging Current (A)	140			
Max.Charging Current (A)	160			
Recommended Charging Voltage (V)	230.4	288.0	345.6	403.2
Max.Charging Voltage (V)	233.6	292.0	350.4	408.8

Discharging Parameters

Recommended Discharging Current (A)	140			
Max.Discharging Current (A)	160			
Recommended Discharging Cut-off Voltage (V)	176.0	220.0	264.0	308.0
Battery Cut-off Voltage (V)	172.8	216.0	259.2	302.4

General Parameters

Dimension (WxDxH,mm)	1100x750x2200			
Net Weight (kg)	654.0	696.0	737.6	779.2
IP Rating of Enclosure	IP55			
Installation Method	Outdoor Floor Type			
Cell Type	LiFePO4			
Warranty	5/10 years			

Certification & Safety Standard

Safety Certification	CE, CB			
Transport & Other Certification	UN38.3, Class 9, MSDS, RoHS			

Temperture Parameters

Discharging Temperature	-20℃ ~ 55℃			
Charging Temperature	0 ~ 55℃			
Storage Temperature	-20℃ ~ 45℃			