

PSI-A-BT3.8S

PSI-A Series



Single-phase and three-phase systems
For residential applications



3,8 kWh battery module
Possible configurations from 1 to 6 modules in series

Physical Parameters

Battery type	LFP (LiFePO4)
Installation	Floor-mounted / Wall-mounted
Dimensions (W x D x H)	610 x 212,5 x 435 mm
Weight	39,2 kg
IP protection rating	IP21
Warranty	10 years ⁽¹⁾

1. The 10-year warranty is valid only upon product registration on the portal and activation of the monitoring service.

Electrical Parameters

Energy capacity	3,8 kWh
Usable capacity	3,648 kWh
Depth of Discharge (DoD)	95% ⁽²⁾
Total throughput capacity	12 MWh ⁽³⁾
Nominal voltage	96 V
Operating voltage range	From 90 to 108 V

2. Test conditions: maximum charge and discharge at 25 ± 2 °C.

3. Operating temperature: -10 °C to 50 °C, End of Life (EOL): 70%.

Operating Parameters

Maximum charge current	40 A
Maximum discharge current	40 A ⁽⁴⁾
Operating temperature range	From -10 °C to 50 °C ⁽⁵⁾
Relative humidity	0 to 95% non-condensing

4. 50 A discharge current sustainable for 30 minutes in off-grid mode.

5. Maximum charge/discharge current may vary depending on temperature conditions, degradation level, and SoC (State of Charge).

BMS

	1 PSI-A-BT3.8S	2 PSI-A-BT3.8S	3 PSI-A-BT3.8S	4 PSI-A-BT3.8S	5 PSI-A-BT3.8S	6 PSI-A-BT3.8S
Total capacity	3,8 kWh	7,6 kWh	11,4 kWh	15,2 kWh	19 kWh	22,8 kWh
Usable capacity	3,648 kWh	7,296 kWh	10,944 kWh	14,592 kWh	18,24 kWh	21,888 kWh
Connection	Single-phase (PSI-A1P Series) and three-phase (PSI-A3P Series)			Three-phase (PSI-A3P Series)		
Monitoring parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement					
Communication	CAN					

Certifications

For a complete list of certifications, please refer to www.peimar.com