



PSI-X-PRL-BMS

PSI-X-PRL SERIES | EXTERNAL PARALLEL BMS

- FAST INSTALLATION
- PRACTICAL AND NOISELESS
- INCREASED STORAGE CAPACITY

Environmental Requirements	PSI-X-PRL-BMS
Operating charge / discharge temperature range	0 - 55 °C
Full load charge / discharge temperature range	5 - 48 °C
Storage temperature	-20 °C - +55 °C (3 months) 0 °C - 40 °C (1 years)
Environmental humidity	From 0 to 100 °C
Altitude	Up to 2000 m
Protection	IP55

Interface	PSI-X-PRL-BMS
Inverted side	CAN 2.0 / RS485
Battery side	RS485
LED indicator status control	3 LED
LED indicator of SdA capacity	2 x 4LED (25 %, 50 %, 75 %, 100 %)
On / off	Button x 1 + switch x 1

General Information	PSI-X-PRL-BMS
Size (H x L x P)	368 x 310 x 140 mm
Weight	5.2 kg
Compatible Inverter	Single phase hybrid Peimar inverter PSI-X1P (HY) Three-phase hybrid Peimar inverter PSI-X3S (HY)

Battery Configuration with BMS

Charging efficiency	99 %
Return efficiency of the battery	95 %
Recommended charge / discharge current	25 A
Maximum charge / discharge current	35 A
Number of cycles (90 % DOD)	6000 Cycles

Configuration PSI-X-BT-H5.8SLV-HV batteries connected to PSI-X-PRL-BMS	1 battery	2 batteries in series	3 batteries in series	2 batteries in parallel
Rated voltage	115.2 V	230.4 V	345.6 V	115.2 V
Operating voltage	100 - 131 V	200 - 262 V	300 - 393 V	100 - 131 V
Total energy	5.8 kWh	11.5 kWh	17.3 kWh	11.5 kWh
Rated power	2.9 kW	5.8 kW	8.7 kW	2.9 kW
Maximum power	3.5 kW	7 kW	10.5 kW	3.5 kW

Configuration PSI-X-BT-H5.8SLV-HV batteries connected to PSI-X-PRL-BMS	4 batteries in series	2 branches in parallel formed by 2 batteries in series	2 branches in parallel formed by 3 batteries in series	2 branches in parallel formed by 4 batteries in series
Rated voltage	460.8 V	230.4 V	345.6 V	460.8 V
Operating voltage	400 - 524 V	200 - 262 V	300 - 393 V	400 - 524 V
Total energy	23 kWh	23 kWh	34.6 kWh	46.1 kWh
Rated power	11.6 kW	5.8 kW	8.7 kW	11.6 kW
Maximum power	14 kW	7 kW	10.5 kW	14 kW

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