



PVS-LBS 5k~20k-G1

Battery Capacity:

5.12kWh/10.24kWh/15.36kWh/20.48kWh;

Name:

Low-voltage lithium battery system

Features

- © **Optimal performance**
 - Low self and standby consumption
 - Enhanced SOC measurement accuracy for optimal battery management
 - Supports up to 1C charge / discharge rate
- © **Safe & Reliable**
 - IP66 rated design for indoor and outdoor use
 - Designed in accordance with global safety standards
 - Integrated fire suppression system
 - Smarter and safer battery management system for precise diagnostics
 - Integrated MOSFET and dual fuse protection for superior safety and reliability
- © **User-friendly**
 - Stackable up to 4 modules, 20.48 kWh per tower
 - Elegant design with concealed cable management
 - Compact, lightweight modules for easier handling and installation
 - 5 selections for operating (LED) indicator via PVSTAR App

Certifications



Model	PVS-LBS 5k-G1	PVS-LBS 10k-G1	PVS-LBS 15k-G1	PVS-LBS 20k-G1
System Data				
Module number				
Cell type	LiFePO4			
Rated capacity	100 Ah			
Nominal energy ¹	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
Usable energy ²	4.86 kWh	9.72 kWh	14.59 kWh	19.45 kWh
Nominal battery voltage	51.2 V			
Battery voltage range	40 V ~ 58.4 V			
Recommended charge / discharge current	60 A	120 A	180 A	210 A
Max. charge / discharge current	100 A	200 A	210 A	210 A
Rated charge / discharge power	3.07 kW	6.14 kW	9.22 kW	10.75 kW
Max. charge / discharge power	5.12 kW	10.24 kW	10.75 kW	10.75 kW
General data				
Dimensions (W / D / H)	630 / 185 / 375 mm	630 / 185 / 695 mm	630 / 185 / 1015 mm	630 / 185 / 1335 mm
Module weight	46.0 kg	92.0 kg	138.0kg	184.0kg
Base weight	2.6 kg			
Installation location	Indoor / Outdoor			
Mounting method	Floor mounted / Wall mounted			
Operating temperature range	Charging: -8°C ~ 58°C; Discharging: -18°C ~ 58 °C			
Storage temperature range	-20°C ~ 60°C			
Cooling concept	Natural convection			
Protective class	II			
Degree of protection	IP66			
Relative humidity	5 % ~ 95 % RH, non-condensing			
Max. operating altitude	4000 m (> 3000 m derating)			
Communication	CAN			
Certification	IEC 62619, IEC 62040, IEC 62477, IEC 63056, IEC 61000, UN38.3			
Life cycles ³	6000 times			
Round-trip efficiency	≥ 95%			

1 Nominal energy is defined under the following conditions: battery voltage 40 ~ 58.4V, 0.5C charge & discharge at +25 °C.

2. Usable energy is defined under the following conditions: 0.5C charge & discharge at +25 °C, 95 % DOD.

3. Life cycle is defined under the following conditions: 0.5C charge & discharge at 25°C (One cycle a day), 90 % DOD, 70 % EOL.

*For reference only. Please refer to the official release for final content.