



5 Years Warranty



Modular and Scaleable



Plug and Play Integration



Long Battery life upto 12 years



KEY FEATURES

- 4500 cycles at 80% Depth of Discharge (DoD), ensuring 10-12 years of lifespan
- Prismatic Cell Design provides high energy density and space efficiency
- Delivers >95% round-trip efficiency, maximizing usable energy
- Smart BMS ensures active cell balancing and multilayer protections
- RS485/CAN communication for real time battery health tracking
- Smart thermal management with automatic cut offs
- Supports fast charging for quick energy transfer
- Zero Maintenance and silent operations
- Unlike Lead Acid Batteries no acidic fumes and health safe
- Compatible with leading inverter brands for Hybrid or off-grid systems

TECHNICAL SPECIFICATION

Parameters	Specifications				
Model	LB1280	LB2560	LB48100	LB5120	LB9600
Battery Type	Lithium Ferro Phosphate (LiFePo4)				
Nominal Voltage	12.8V	25.6V	48V	51.2V	96V
Nominal Ah	100AH	100Ah	100Ah	100Ah	100Ah
Rated Capacity @25°C	1280Wh	2560Wh	4800Wh	5120Wh	9600Wh
Cell Configuration	4S1P	8S1P	15S1P	16S1P	30S1P
CELL Type	Prismatic (LiFePo4)				
Cycle Life	4500 Cycles @80% DOD				
Design Life	12-15 Years				
Operating Voltage Range	10.5 - 13.5V	21 - 27V	42-54V	44.8-57.6V	84- 108V
Charge Voltage	14.2V	28.4V	54V (Max)	57.6V (Max)	108V (Max)
Discharge Cut-Off Voltage	10.5V	21V	42V (Min)	44.8V(Min)	84V (Min)
Standard Charge Current	20A				
Maximum Charge Current	50A				
Standard Discharge Current	50A				
Maximum Discharge Current	100A				
Peak Discharge Current	150A (For 1Sec)				
Internal Resistance	<20mΩ				
Nominal Operating Temperature	25°C				
Operating Temperature	-10°C to 55°C (Charge/Discharge)				
Protections	Over Charge, Over Discharge, Over Current, Short Circuit, Hi-Low Temperature Cut-off				
Terminal Type	Suitable ESS Connector				
IP Rating	IP20				
Communication Protocol	NA		RS485/CAN		
Display	SOC/LED		Smart Display		
Product Type	Wall Mountable		Rack/Wall Mountable	Wheel Base	
Dimensions Approx. (LXWXH)	320X150X280mm	320X200X320mm	435X630X174mm/ 400X180X700mm		600X180X750mm
Approx Weight	12Kg	27Kg	44Kg	48Kg	100Kg
Packed Weight	15Kg	30Kg	50Kg	55Kg	110Kg

