



POWER
THE

ARC OF
LIFE

51.2V 314Ah LiFePO4 Battery

5kWh | Low Voltage Battery



- 6000+ cycle life, 10-15 year design life
- Grade A quality cells
- BMS-compatible, optimized for energy storage inverters
- Intelligent BMS for safe and reliable operation
- Suitable for residential or small commercial, off-grid or on-grid applications

TECHNICAL SPECIFICATIONS – AA-05.105-BL

PARAMETER	SPECIFICATION
Battery Type	LiFePO ₄
Rated Voltage (V)	51.2 V
Capacity	100 Ah
Energy (kWh)	5.12 kWh
Configuration	16S1P
Discharge Cut-off Protect Voltage (V)	40 V
Charge Cut-off Protect Voltage (V)	58.4 V
Max Charge Current (A)	100 A
Max Discharge Current (A)	100 A
Communication	CAN / RS485 / RS232 (Optional)
Parallel	Max. 16 units in parallel
Cycle Life	>6000
Dimensions L×W×H (mm)	690 × 380 × 148 ± 1 mm
Net Weight (kg)	49.3 ± 1 kg
Cooling	Natural cooling
Environment	Indoor
Mounting Options	Wall mount
Discharge Temperature (°C)	-20 ~ +55 °C
Charge Temperature (°C)	0 ~ +55 °C
Storage Conditions	20°C to 30°C, up to 95% RH, non-condensing · SOC: 50% initial
Maximum Altitude	3000 m

*Test conditions: charge & discharge averagely at 25±2°C, at the beginning of life. Actual available energy may vary depending on charge/discharge rate, environmental conditions (e.g.temperature), transport and storage factors.