



Axil LP16-48100

Lithium Iron Phosphate (LiFePO₄) Battery



Features & Benefits

- ✓ **High Cycle Life**
6000 cycles @ 80% DOD for lower total of ownership cost.
- ✓ **Longer Service Life**
Low maintenance batteries with stable chemistry.
- ✓ **Built-in Circuit Protection**
The internal Battery Management System (BMS) protects the unit.
- ✓ **Better Storage**
Up to 6 months with extremely low self discharge (LSD) rate and no risk of sulphation.
- ✓ **Quick Recharge**
Save time and increase productivity thanks to superior charge / discharge efficiency.
- ✓ **Extreme Heat Tolerance**
Suitable for a wider range of applications where the ambient temperature is unusually high - up to +60°C.

Applications

- ✓ Solar Storage
- ✓ Switching Applications and more
- ✓ Base Transceiver Station
- ✓ Communication Equipment
- ✓ Central Offices
- ✓ Telecommunication Systems
- ✓ Electronic Cash Registers
- ✓ Microprocessor Based Equipment
- ✓ UPS

The Axil LP16-48100 offers a versatile and reliable power solution. Combine up to 15 units for energy capacities ranging from 5100Wh to 76500Wh.

Whether it's wall-mounted convenience, or rack-mounted for industrial management of power, the Axil LP16-48100 offers seamless adaptability.

Safe lithium iron phosphate battery cell with high energy density, large capacity and high power output.

Local monitoring via LCD monitor.

Technical Specification

Electrical Performance

Nominal Voltage	51.2 V
Nominal Capacity	100 Ah
Capacity @ 20A	300 min
Energy	5120 Wh
Communication	CAN2.0/RS232/RS485
Resistance	≤45 mΩ @ 50% SOC
Efficiency	>96%
Module Parallel	15 units

Charge Performance

Recommended Charge Current	20A
Maximum Charge Current	100A
Recommended Charge Voltage	57.6V
BMS Charge Cut-Off Voltage	<58.4V (3.65V/Cell)
Reconnect Voltage	>57.6V (3.6V/Cell)
Balancing Voltage	<57.6V (3.6V/Cell)
Battery Cells in Series	16

Discharge Performance

Maximum Continuous Discharge Current	100A
Peak Discharge Current	110A (3s)
BMS Discharge Cut-Off Current	150A (300ms)
Balancing Open Voltage	55.2V (3.45V/Cell)
Recommended Low Voltage Disconnect	44V (2.75V/Cell)
BMS Discharge Cut-Off Voltage	>32.0V (2s) (2.0V/Cell)
Reconnect Voltage	>40.0V (2.5V/Cell)
Short Circuit Protection	250 ~ 500 μs

Compliance

Certifications	CE (Battery) UN38.3 (Battery) UL1642 & IEC62133 (Cells)
Shipping Classification	UN 3480, CLASS 9

Mechanical

Dimension (L x W x H)	580 x 400 x 145mm 22.84 x 15.75 x 5.7"
Approx. Weight	44kg
Terminal Type	DIN POST
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Materials	SPPC
Enclosure Protection	IP65

Temperature Performance

Discharge Temperature	-4 ~ 131°F (-20 ~ 55°C)
Charge Temperature	-4 ~ 131°F (0 ~ 45°C)
Storage Temperature	23 ~ 95°F (-5 ~ 35°C)
BMS High Temperature Cut-Off	149°F (65°C)
Reconnect Temperature	131°F (55°C)

Heating Foil Performance

Heating Temperature Range	-4 to 41°F (-20 to 5°C)
Heating Time	Approx. 1 hour @ 7.5A
BMS Heating Foil Cut-Off	158°F (70°C)



Performance may vary depending on application. All specifications are subject to change without prior notice. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.



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