

AESON POWER Lithium-ion Battery



APS Series

www.aesonpower.com.au

APS5000

APS Series Lithium-ion Battery Module



Introduction:

The Aeson Power APS series is a non-managed 51.2V LiFePO₄ (Lithium-Iron Phosphate) battery module. With advanced LiFePO₄ cell technology and a smart Battery Management System (BMS), the product offers the benefits of long cycle life, compact size, lightweight design, high safety standards, and environmental protection. The battery also features Wi-Fi functionality, enabling remote fault diagnosis and OTA upgrade capabilities. It is well-suited for use in solar battery systems, power backup solutions, and various energy storage applications.

Features and Benefits:

- Proven LiFePO₄ chemistry ensures fire safety and maximizes cycle life for deep cycle and hybrid applications.
- The Wi-Fi function supports remote fault diagnosis and OTA upgrades through the APP operation interface.
- Integrated Smart Battery Management System (BMS) with high energy density.
- BMS technology ensures battery safety and reliability by preventing overcharging, over-discharging, and high current situations.
- Equalizing and balancing of each cell prolongs battery life.
- Intelligent monitoring, telemetry, remote communication, and control via RS485.
- The capability of parallel connections of modules allows for increasing capacity.
- LED indication for module status and alarms.
- Maintenance free and fast charge capability.
- 10 Years Warranty

Specification:

Item	Parameters	Note
Nominal Capacity	100Ah	
Nominal Voltage	51.2V	
Charge & Discharge efficiency	>98%	0.5C Charge; 1C Discharge;
Self-discharge/month	≤3%	
Dimension (L * W * H, mm)	442 * 470 * 133	
Weight (Kg)	44 ± 1	
Cycle Life	≥6000	@25°C 80%DoD @25°C 70%EOL
Design Life	15 + years	@25°C
Discharge Voltage	46.4V ~ 47V	
Charge Voltage	56V ~ 57V	
Standard Charge Current	20A	0.2C
Max. Continuous Charge/Discharge Current	100A	1C
Peak Charge / Discharge Current	101 ~ 120A	@15min
	121 ~ 200A	@10s
Communication	RS485, CAN, RS232	
Battery Cell Technology	Lithium Iron Phosphate	Cobalt-free
Enclosure Protection Rating	IP20	
Working Temperature	Discharge: -20°C~ 60°C Charge: 0°C~ 60°C Storage: -5°C~ 45°C	
Humidity	5% ~ 95% (RH)	No Condensation
Short Current	<2000A/1ms	
Application: On Grid/ On Grid + Backup/ Off Grid		
Certification: UN38.3 / IEC62619 / IEC 62040/ CE / MSDS		

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