AURAWATT

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LFP SERIES

5.12kWh - Lithium-ion Battery

FEATURES

Advanced LFP Safety Architecture:
Utilizes next-generation Cobalt-Free Lithium Iron Phosphate (LFP) chemistry, offering inherent thermal stability, anon-toxic eco-friendly footprint, and a low-voltage safety connection designed to eliminate electrical hazards.

Industrial-Grade Longevity:
Engineered for an exceptional lifespan delivering over 3,500 cycles at 80% Depth of Discharge (DOD) before reaching 80% End of Life (EOL) at a baseline temperature of 25°C.

High-Efficiency Performance:
Supports continuous 0.25C to 0.5C charge and discharge rates, ensuring high-energy density and reliable power delivery for demanding energy storage systems.

Zero-Maintenance Operation:
Offers a seamless, user-friendly experience with a true "plug-and-play" architecture, eliminating downtime and recurring maintenance costs.



MODEL	AW-LFP-51.2
TECHNICAL PARAMETRES	
Battery Chemistry	LiFePO4
Capacity (Ah)	100Ah
Nominal Voltage (V)	51.2
Battery Configuration	16S 1P
Operating Voltage (V)	42V-58.4V
Energy (kWh)	5.12kWh
Charging C-Standard Rated	0.3C
Max Charging C-Rated	0.5C
Discharging C-Standard Rated	0.5C
Max Discharging C-Rated	1C
Peak Current	110A@3sec
Battery Management System	Smart BMS
Cell Balancing	Passive
Dimension (L*W*H, mm) Cabinet	(515*181.2*535)mm
Soft Pack Weight (kg)	~54kg
Operating Temperature	Charge: 15-45°C / Discharge: 0-50°C
Humidity	5%~95%
DOD%	90%
SOC% Required for long Transportation	30%~40% (Rated Capacity)
Communication Interface	Yes, CAN, RS485, BLE
Protections	OV, UV, UT, OT Short Circuit, OC
Cell cycles at 80% DoD @80% capacity retention at 25°C	3500
Parallel Scalability	Yes (upto 16)