

EcoWatt LiFePO4 Smart BMS 12.8V 100Ah

ELECTRICAL PERFORMANCE

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Capacity @ 20A	300min
Energy	1280Wh
Resistance	$\leq 15 \text{ m}\Omega$ @ 50% SOC
Self Discharge	<3% / Month
Application	Series and parallel connection for 12V, 24V, 36V, 48V applications.
Number of Cycle	>4000 at 80% DoD



DISCHARGE PERFORMANCE

Continuous Discharge Current	100A
Peak Discharge Cut-Off Current	300A (200~500ms)
Discharge Cut-Off Voltage	10V (2000ms)
Reconnect Voltage	>11.2V
Short Circuit Protection	1000-2000A $\pm$ 400A (200~800 μ s)

MECHANICAL PERFORMANCE

Dimension (L x W x H)	330 x 172 x 220 mm
Weight	11.15 kg
Terminal Type	M8
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	ABS
Enclosure Protection	IP65
Extension	LCD Display

CHARGE PERFORMANCE

Recommended Charge Current	30A
Maximum Charge Current	50A
Recommended Charge Voltage	14.6V
Reconnect Voltage	$\leq 13.8\text{V}$
Balancing Voltage	>12.8V

TEMPERATUR EPERFORMANCE

Discharge Temperature	-20 ~ 75 °C
Charge Temperature	0 ~ 50 °C
Storage Temperature	-5 ~ 35 °C

COMPLIANCE

Warranty	2 Years
Shipping Classification	UN 3480, CLASS 9
Certifications	CE UN38.3 UL1642 & IEC621