

EcoWatt LiFePO4 Smart BMS 12.8V 100Ah

ELECTRICAL PERFORMANCE

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Capacity @ 20A	300min
Energy	1280Wh
Resistance	$\leq 25 \text{ m}\Omega$ @ 50% SOC
Self Discharge	<3% / Month
Cells	Prismatic Cell 3.2V/100Ah
Application	12V installation, parallel connection only, no series connection
Life cycle	>4000

DISCHARGE PERFORMANCE

Continuous Discharge Current	100A
Reconnect Voltage	>10 V
Short Circuit Protection	200 ~ 600 μs
Recommended Low Voltage Disconnect	10V
Discharge Cut-Off Voltage	>8.4 V (50 ~ 150 ms)
Maximum continuous Discharge Current	300A (5 ~ 15 ms)

MECHANICAL PERFORMANCE

Dimension (L x W x H)	330 x 172 x 223 mm
Weight	12.6 kg
Terminal Type	M8
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	ABS
Enclosure Protection	IP65
Extension	LED Display



CHARGE PERFORMANCE

Recommended Charge Current	20A
Maximum Charge Current	50A
Recommended Charge Voltage	14.6V
Self Discharge	>14.4 V
Balancing Voltage	<14 V

TEMPERATURE PERFORMANCE

Discharge Temperature	-20 ~ 60 °C
Charge Temperature	0 ~ 45 °C
Storage Temperature	-5 ~ 35 °C
High Temperature Cut-Off	65 °C

COMPLIANCE

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