

DRP100-24



24V 100Ah LiFePO4 Monobloc Battery

Engineered for consistent performance in demanding environments.

Extended cycle life and integrated durability keep systems running longer.



Certified

Cell-level UL 9540A UN38.3,
UL 1973 , IEC 62619, CE



Integrated BMS

Built-in protection and
system management



Heated Model

Reliable performance
in cold climates



Cell Balancing

Optimizes battery
performance



SPECIFICATIONS

Performance

Voltage	24V
Capacity	100Ah
Efficiency	99%
Maximum Self-Discharge	3% per month
Cycles	6,000 cycles at 80% DoD
Built-in BMS	Internal
Resistance	< 30 mΩ
Usable DoD	100%
Parallel and Series Connections	16 in Parallel

Mechanical

Dimensions	19.1" L*6.8" W*9.2" H
Weight	50 Lbs.
Terminal Type	Threaded Insert
Terminal Hole	M8 Bolt
Terminal Torque	8-12Nm
Case Material	ABS+PC Fire Rated
Cell Type - Electrolyte	LiFePO4
IP Rating	IP67

Certifications

Certifications	UN38.3, UL 1973 Recognized Component, CE
Cell	UN38.3, UL9540A, IEC62619
Shipping Class	UN3480, Class 9

Charging

Recommended Charge Current	50A
Max Charge Current	100A
Absorption Voltage	28.4V
Float Voltage	27.6V
Absorption Time BMS Cell	60 minutes per 100Ah
Balancing Voltage Range	28.4-29.2V
Temperature Compensation	Not applicable

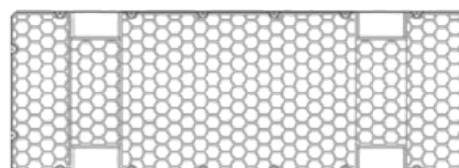
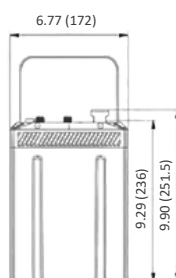
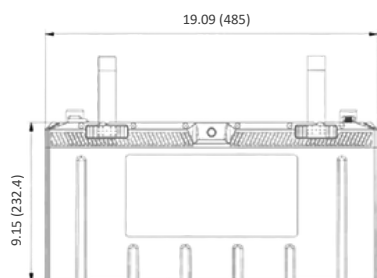
Discharging

Recommended Discharge Current	100A
Max Discharge	120A
Surge Current Limit	500A for 3S
Surge for Loads over 200A	200A for 60S
Recommended LVD	22-23.2V
BMS Discharge Voltage Cut-Off	21.2-22V
Reconnect Voltage	23.6-24.4V
Short Circuit Protection	1200A / 500us

Temperature

Operating Temperature Range	-4° to 140°F (-20° to 60°C)
Discharge Temperature Range	-4° to 140°F (-20° to 60°C)
Charge Temperature Range	-4° to 140°F (-20° to 60°C)
Storage Temperature Range	59° to 95°F (15° to 35°C)
BMS High Temperature Cut-Off	149°F (65°C)
BMS Reconnect (Charge)	113°F (45°C)
BMS Reconnect (Discharge)	122°F (50°C)

Product Outline*



*Inch (mm)