

100AH DEEP CYCLE LFP BATTERY



DCS-12V-100AH-LD



ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Self Discharge (Storage)	≤ 3% per Month
Parallel Connection	Max 10
Series Connection	No

CHARGE SPECIFICATIONS @ +77F (± 5F)

Maximum Continuous Charge Current	≤ 50A (0.5C)
Recommend Charge Current	≤ 35A (0.3C)
DC Charger Current Limit	≤ 50A (0.5C)
Cycling Voltage	11.5 - 14.6V
Charge Voltage	14.0 - 14.6V
Float Voltage	13.5V - 13.7V

DISCHARGE SPECIFICATIONS @ +77F (± 5F)

Maximum Continuous Discharge Current	≤ 100A (1.0C)
Lithium Cranking Amps (LCA)	N/A
Recommended Low Voltage Disconnect	12.0V
Discharge Under-Voltage Protection	11.5V

CHEMISTRY SPECIFICATIONS

Cell Type	Cylindrical Cells - 3.2V (15Ah)
Cell Chemistry	Lithium Ferro Phosphate Cells (LFP)
Cell C-Rate	2C
Cycle Performance	2000 Cycles @ 100% DOD*

*2000 Cycles @ 100% DOD ≤ 80% Capacity Retention @ 77F

WARRANTY

Warranty Period	3 Years
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PHYSICAL SPECIFICATIONS

Enclosure Material	ABS Plastic
Dimensions (L x W x H)	12.913" x 6.732" x 8.464"
Weight	29.3 lbs
Terminal Type	Top Mount Steel/Copper M8 x 1.25
Terminal Configuration	LHP or RHP
Terminal Torque	9 ft-lbs (12 Nm)
Ingress Protection	IP54

BMS SPECIFICATIONS

BMS Type	DCS 3S
BMS Low Voltage Cut Off (LVC)	11.5V
BMS High Voltage Cut Off (HVC)	15.0V
Cell Balancing Type	Active Cell Balancing
Data Communication	Bluetooth

TEMPERATURE SPECIFICATIONS

Charge Temperature Range	+25°F to +149°F
Discharge Temperature Range	-13°F to +176°F
BMS High Temperature Cut-Off	230°F
BMS Reconnect Temperature	176°F

HEATING ELEMENT SPECIFICATIONS

Heater Activation Temperature	N/A
Heater Shut Off Temperature	N/A
Energy Consumption	N/A

COMPLIANCE SPECIFICATIONS

Certifications	CE, UL 1642, IEC 62133 & 62619
BMS Certification	MIL-STD-810G (Method 514.6)
Shipping Classification	UN 38.3