

80AH DEEP CYCLE LFP BATTERY

DCS-12V-80AH



ELECTRICAL SPECIFICATIONS	
Nominal Voltage	12.8V
Nominal Capacity	80Ah
Self Discharge (Storage)	≤ 3% per Month
Parallel Connection	Max 10
Series Connection	No
CHARGE SPECIFICATIONS @ +77F (± 5F)	
Maximum Continuous Charge Current	≤ 160A (2.0C)
Recommend Charge Current	50A (0.7C)
Alternator/DC Charger Current Limit	≤ 80A
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	≤ 250A (3.0C)
Lithium Cranking Amps (LCA)	1200 LCA
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	6C
Cycle Performance	2500 Cycles @ 100% DOD*
*2500 Cycles @ 100% DOD ≤ 80% Capacity Retention @ 77F	
WARRANTY	
Warranty Period	3 Years

PHYSICAL SPECIFICATIONS	
Enclosure Material	ABS Plastic
Dimensions (L x W x H)	12.047" x 6.614" x 8.307"
Weight	30.8 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	32°F
Heater Shut Off Temperature	41°F
Energy Consumption	4A
COMPLIANCE SPECIFICATIONS	
Certifications	CE, UL 1642, IEC 62133 & 62619
BMS Certification	MIL-STD-810G (Method 514.6)
Shipping Classification	UN 38.3