

180AH DUAL LFP BATTERY SYSTEM

DCS-DBS-180AH



ELECTRICAL SPECIFICATIONS (*per battery)	
Nominal Voltage	12.8V
Nominal Capacity	90Ah*
Self Discharge (Storage)	≤ 3% per Month
Parallel Connection	Max 10
Series Connection	No
CHARGE SPECIFICATIONS @ +77F (± 5F) (*per battery)	
Maximum Continuous Charge Current	≤ 120A (1.0C)*
Recommend Charge Current	≤70A (0.8C)*
Alternator/DC Charger Current Limit	≤ 140A
Cycling Voltage	11.5 - 14.6V
Charge Voltage	14.0 - 14.6V
Float Voltage	13.5V - 13.7V
DISCHARGE SPECIFICATIONS @ +77F (± 5F) (*per battery)	
Maximum Continuous Discharge Current	≤ 180 (2.0C)*
Lithium Cranking Amps (LCA)	900 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	2C
Cycle Performance	2500 Cycles @ 100% DOD**
**2500 Cycles @ 100% DOD ≤ 80% Capacity Retention @ 77F	
MPPT SPECIFICATIONS	
Rated Charge Current	20A
Maximum PV Open Circuit Voltage	80V

PHYSICAL SPECIFICATIONS (*per battery)	
Enclosure Material	ABS Plastic
Dimensions (L x W x H)	10.236" x 6.653" x 8.267"*
Weight	22.7 lbs / 26.2 lbs (with MPPT)
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
WARRANTY	
Warranty Period	3 Years