CURRENT CONNECTED®

SOK 12V 100Ah Data Sheet

Electrical Performace	
Nominal Voltage	12.8V
Nominal Capacity	100Ah
Capacity @ 20A	300 min
Energy	1280W
Resistance	≤28 mΩ @ 50% SOC
Self Discharge	<3% per month
Cells	3.2V 100Ah Cells

Charge Performance	
Recommended Charge Current	up to 20A
Burst Charge Current	50A
Recommended Charge Voltage	14.6V
BMS Charge Cut-Off Voltage	>14.6V
Reconnect Voltage	<14.6V
Max Batteries in Series	4

Temperature Performance	
Discharge Temperature	-22 to 140°F (-30 to 60°C)
Charge Temperature	32 to 140°F (0 to 60°C)
Storage Temperature	-22 to 140°F (-30 to 60°C)
BMS Low Temp Cut-Off	32°F (0°C)
Reconnect Temperature	>33°F

Discharge Performance	
Max Cont. Discharge Current	100A
Peak Discharge Current	200A (3s, auto shutdown)
BMS Discharge Cut-Off Current	330A ± 10A (6~16 ms)
Rec. Low Voltage Disconnect	11.2V
BMS Discharge Cut-Off Voltage	<10.4V (50~150 ms)
Reconnect Voltage	>11.6V
Short Circuit Protection	200~500 μs

Mechanical Performance	
Dimensions (LxWxH)	Metal: 10.6 x 9.1 x 7.9 inches Plastic: 12.8 x 9 x 6.7 inches
Appx. Weight	27-28 lbs. (12.7 kg)
Terminal Type	M8
Terminal Torque	7.5 ft·lbs. (9~11 N-m)
Case Material (Marine)	Black Paint Metal (Plastic)

SOK BATTERY

Compliance	
Certifications	N/A
Enclosure Protection	IP50 | Marine: IP65