

CURRENT CONNECTED®

SOK 48V 100Ah PRO Data Sheet



Electrical Performance	
Nominal Voltage	51.2V
Nominal Capacity	100Ah
Capacity @ 20A	300 min
Energy	5120Wh
Max Terminal Feedthrough Current	350A
Self Discharge	<3% per month (BMS Off) ~2% per day (BMS On)
Max Batteries in Series	1
Max Batteries in Parallel	15 (w/BMS Communication)

Charge Performance	
Recommended Charge Current	up to 63A
Max Continuous Charge Current	100A
Recommended Charge Voltage	57.6V
BMS Cell Protection Voltage	3.7V
BMS Pack Protection Voltage	>58.2V

Discharge Performance	
Max Cont. Discharge Current	100A (1C)
Peak Discharge Current	125A (3s, auto shutdown)
BMS Low Voltage Disconnect	48V
BMS Low Voltage Recover	48V
Short Circuit Protection	300A, 200µs

Temperature Performance	
Discharge Temperature	-4 to 140°F (-20 to 60°C)
Charge Temperature	32 to 113°F (0 to 45°C)
Storage Temperature	23 to 95°F (-5 to 35°C)
BMS Low Temp Cut-Off	32°F (0°C)
Reconnect Temperature	>33°F

Mechanical Performance	
Dimensions (WxHxD)	17.5 x 7 x 18.25 inches
Appx. Weight	99.2 lbs.
Terminal Torque	10 ft-lbs
Internal Temp Sensors	4 Cell, 1 BMS, 1 Ambient Air
Case Material	Powder Coated Steel



Compliance	
Certifications	UL1973 UL9540A UL9540 (Pending)
Enclosure Protection	IP20