

# CURRENT CONNECTED<sup>®</sup>

## 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

### 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

### 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

### 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

**SOK**  
BATTERY

### Compliance

Certifications	UL1973   UL9540A   UL9540 (Pending)
Enclosure Protection	IP20