

# SOK 48v 5kWh Lithium Server Rack Battery



SOK Battery NZ



48 V series
10 Years Warranty, Up To 8000 Cycles Life Span
PC Software Monitoring
Rack Mount Design
Built-In BMS, RS485/RS232/CAN Inverter communication. Confirmed function with MPP Solar, Victron, Sol-Ark & More
Pre Charge Circuit
UL9540 certified

- 48 Volt (51.2 Nominal) 100Ah, 5.12 kWh
- 20 Year Lifespan & 10 Year Warranty
- Cells rated for 80% Capacity after 4000 Cycles, 100% DOD @1C Rate
- Typical capacity at 80% DOD @.5C Rate is over 7000 Cycles
- Maintenance Free
- Built-In Smart Battery Management System (BMS)
- 5 Temperature sensors, protected from low and high temperatures
- Pre-Charge Circuit to Prevent BMS Damage
- Detachable cover, user serviceable BMS and cells
- RS485 & CANBus communication, works with many inverters
- Rack Mountable for quick and easy installation
- UL9540 certified; this U.S standard covers the safety of the battery system, functional safety, fire suppression, containment and environmental performance.

User manual can be accessed here: <https://www.currentconnected.com/sk48v100-owner-operators-manual/>

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Mechanical Properties	
Dimension	442*456*177mm
Weight	45kg ( 99.2 Lbs)
Housing Material	White Metal
Terminal Model	2x M8 (Use 5/16" Ring Lugs)
Electrical Characteristics	
Nominal Voltage	51.2V
Rated Capacity(0.2C)	100Ah
Efficiency	99%
Energy	5,120Wh
Self Discharge	≤3% Per Month
Charging Parameters	
Recommended Charge Current	0 ~ 63A
Maximun Charge Current	100A
Recommended Charge Voltage	57.6V-58.4V
BMS Charge Voltage Cut-off	>58.2V
Reconnect Voltage	<57.6V
Balancing Voltage	>57.6V
Discharge Parameters	
Maximum Continuous Discharge Current	100A
Peak Discharge Current	200A (3S)
BMS Discharge Current Cut Off	330A
BMS Discharge Voltage Cut Off	<42V
Reconnect Voltage	>46V
Recommended Low Voltage Disconnect	46V
Operation & Storage Temperature Range	
Discharge Temperature	-20 to 60 °C
Charge Temperature	0 to 45 °C
Storage Temperature	-5 to 35 °C
Compliance	
Construction	16S 1P 3.2v LiFePO4
Shipping Classification	UN 3480   Class 9   MSDS
Cell Type	Prismatic Cell (UL1973 Standard) LiFePO4 3.2V 100Ah Grade A+

100Ah Cycle life @25°C 1.0C/1.0C 2.5V-3.65V

