

SK24V100

Drop-In Replacement LiFePO4 Battery

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL PERFORMANCE

Nominal Voltage	25.6V
Nominal Capacity	100 Ah
Capacity @ 20A	300 min
Energy	2560Wh
Resistance	≤20 mΩ @ 50% SOC
Self Discharge	<3% / Month
Cells	3.2V 100Ah Cells

CHARGE PERFORMANCE

Recommended Charge Current	20A
Maximum Charge Current	50A
Recommended Charge Voltage	29.2V
BMS Charge Cut-Off Voltage	< 29.2V (3.65V/Cell)
Reconnect Voltage	>28.8V (3.6V/Cell)
Balancing Voltage	< 28.8V (3.6V/Cell)
Maximum Batteries in Series	4

DISCHARGE PERFORMANCE

Maximum Continuous Discharge Current	100 A
Peak Discharge Current	200 A (3s)
BMS Discharge Cut-Off Current	330 A ±10 A (6 ~16 ms)
Recommended Low Voltage Disconnect	22.4V
BMS Discharge Cut-Off Voltage	>20.8V (50 ~ 150 ms) (2.6V/Cell)
Reconnect Voltage	>23.2V (2.9V/Cell)
Short Circuit Protection	200 ~ 500 μs

TEMPERATURE PERFORMANCE

Discharge Temperature	-4 ~ 140 °F (-20 ~ 60 °C)
Charge Temperature	32 ~ 113 °F (0 ~ 45 °C)
Storage Temperature	23 ~ 95 °F (-5 ~ 35 °C)
BMS High Temperature Cut-Off	149 °F (65 °C)
Reconnect Temperature	131 °F (55 °C)

COMPLIANCE

Certifications	UL1642 & IEC62133 (cells)
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Weight:55lbs

MECHANICAL PERFORMANCE

Dimension (L x W x H)	468 x 200 x 180 mm 18.43x7.87x7.09 inches
Approx. Weight	55 lbs (25 kg)
Terminal Type	M8
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	Black Paint Metal Case
Enclosure Protection	IP50

