

STORAGEDOCK

48 VOLT BATTERY RANGE

TECHNICAL DATA SHEET

ES5K/48V LiFePO₄ Battery Series 100

SHORT DESCRIPTION

Introducing the ES51.2V/5K-100Ah LiFePO₄ battery, an innovative energy storage solution proudly manufactured in South Africa. This compact battery has a 5.12 kWh capacity and a 100 Ah rating, making it ideal for various applications. The ES5K/48V features a contemporary metal enclosure and weighs 51kg.

At its core, prime-life lithium iron phosphate (LiFePO₄) battery cells power the ES5K/48V, known for exceptional performance and longevity. Ensuring at least 4000 cycles at 80% Depth of Discharge (DoD), it provides a reliable energy storage solution. The battery includes a proprietary intelligent BMS, actively monitoring and managing the battery's health to safeguard against overcharging and over-discharging.



TECHNICAL SPECIFICATIONS ES5K/48V

Product code	ES5K/51/CAN
Battery type	Grade A LiFePO ₄ Prismatic Cells
Nominal Voltage	51.2 VDC
Nominal capacity	100 Ah
Total Energy Capacity	5.120 kWh
Energy Capacity at 80% DoD	4.096 kWh
Standard charge current	50 A
Max charge current	80 A
Charge voltage Bulk/Absorb	56.2 VDC
Float voltage	56.0 VDC
Recommended constant discharge	50 A
Max discharge current	100 A



Manufactured by SPECIALIZED SOLAR SYSTEMS

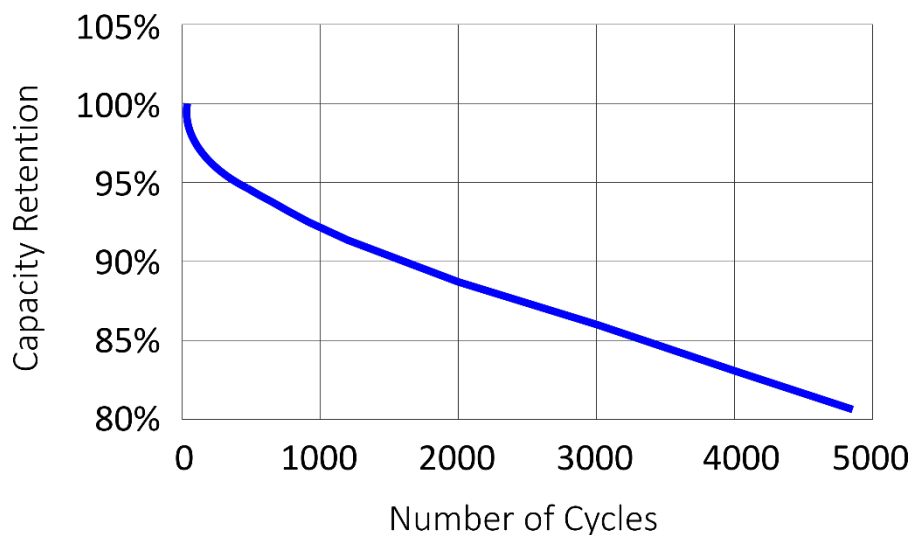
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Discharge cut-off voltage	48 V @ 0.005C
BMS	Charge: 80A / Discharge: 125A
Protection	100 A circuit breaker
Operating temperature – Charge/Discharge	0 to 45° C / 0 to 55° C
Maximum parallel batteries	4 – Master and slave
Inverter size per additional battery	5kVA / 8kVA / 10kVA / 15kVA
Maximum discharge per additional battery	100A / 150A / 200A / 270A
CAN-bus communication	Yes
Victron GX ready	Yes
Case enclosure	Floor/wall mountable metal enclosure, painted. Indoor/protected under-cover use.
Dimensions (length x width x depth)	720mm x 340mm x 280mm
Weight	51kg
Ventilation distance	150mm clear on all sides with no obstructions



BATTERY CYCLE LIFE AT 25°C (1C/1C)



For more information and videos, please scan the QR code

