

STORAGEDOCK

48 VOLT BATTERY RANGE

TECHNICAL DATA SHEET

ES3K/48V LiFePO₄ Battery Series 100

SHORT DESCRIPTION

Introducing the ES51.2V/3K-60Ah LiFePO₄ battery, an innovative energy storage solution proudly manufactured in South Africa. This compact battery has a 3.072 kWh capacity and a 60 Ah rating, making it ideal for various applications. The ES3K/48V features a contemporary metal enclosure and weighs only 33.6kg.

At its core, prime-life lithium iron phosphate (LiFePO₄) battery cells power the ES3K/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 ES3K/48V

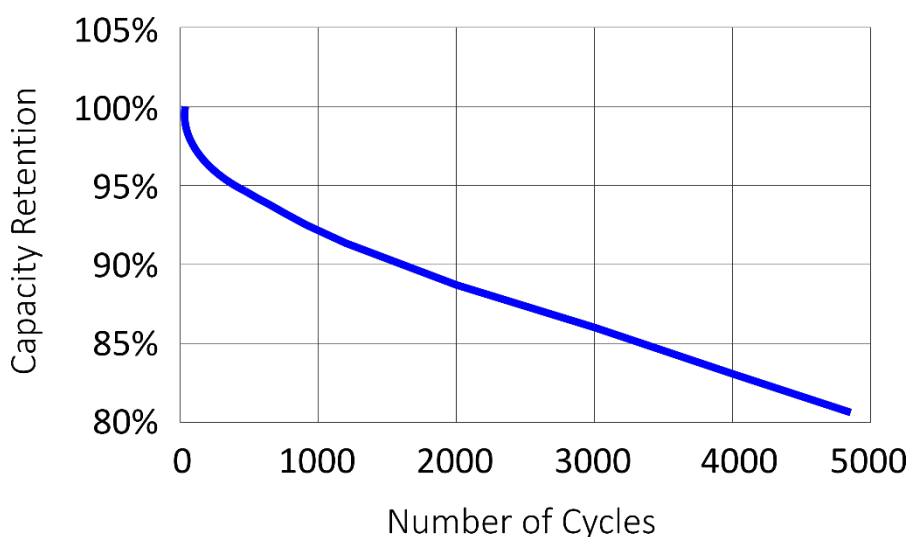
Product code	ES3K/51/CAN
Battery type	Grade A LiFePO ₄ Prismatic Cells
Nominal Voltage	51.2 VDC
Nominal capacity	60 Ah
Total Energy Capacity	3.072 kWh
Energy Capacity at 80% DoD	2.458 kWh
Standard charge current	40 A
Max charge current	45 A
Charge voltage Bulk/Absorb	56.2 VDC
Float voltage	56.0 VDC
Recommended constant discharge	50 A



Max discharge current	80 A
Discharge cut-off voltage	48 V @ 0.005C
BMS	Charge: 50A / Discharge: 100A
Protection	125 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	3kVA / 5kVA / 8kVA / 8kVA
Maximum discharge per additional battery	60A / 100A / 120A / 150A
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 290mm x 250mm
Weight	33.6kg
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

