

STORAGEDOCK

24 VOLT BATTERY RANGE

TECHNICAL DATA SHEET

ES3K/24V LiFePO₄ Battery Series 100

SHORT DESCRIPTION

Introducing the ES3K/24V-120Ah LiFePO₄ battery, an innovative energy storage solution proudly manufactured in South Africa. This compact battery has a 3.072 kWh capacity and a 120 Ah rating, making it ideal for various applications. The ES3K/24V features a contemporary metal enclosure and weighs only 33.6kg.

At its core, prime-life lithium iron phosphate (LiFePO₄) battery cells power the ES3K/24V, 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/24V

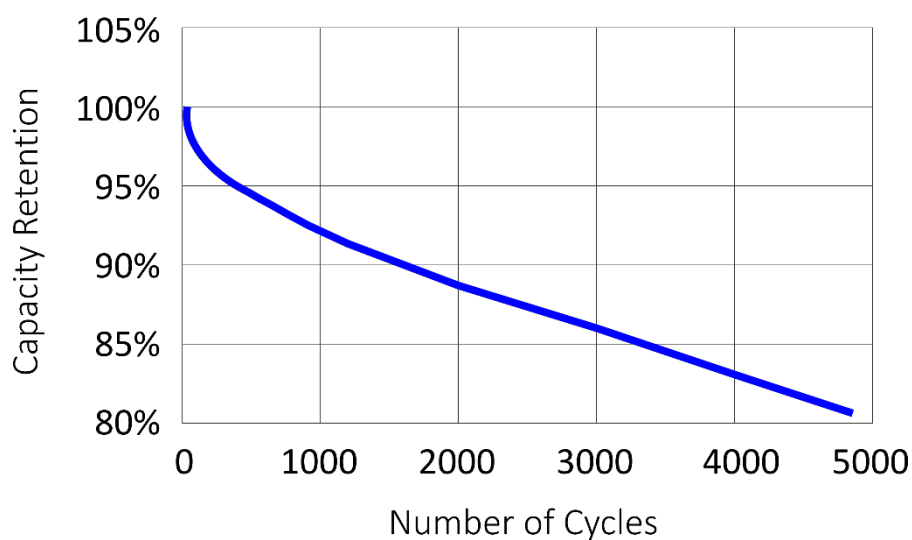
Product code	ES3K-24V
Battery type	Grade A LiFePO ₄ Prismatic Cells
Nominal Voltage	25.6 VDC
Nominal capacity	120 Ah
Total Energy Capacity	3.072 kWh
Energy Capacity at 80% DoD	2.458 kWh
Standard charge current	60 A
Max charge current	80 A
Charge voltage Bulk/Absorb	28.1 VDC
Float voltage	28.0 VDC
Recommended constant discharge	60 A
Max discharge current	100 A



Discharge cut-off voltage	24 V @ 0.005C
BMS	Charge: 60A / 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
Battery cycle life	4000 cycles @ 0.5C 80% DoD
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

