

STORAGEDOCK

12 VOLT BATTERY RANGE

TECHNICAL DATA SHEET ES0.64K/12V LiFePO₄ Battery

SHORT DESCRIPTION

Introducing the ES0.64K/12V-50Ah LiFePO₄ battery, an innovative energy storage solution proudly manufactured in South Africa. This compact battery has a 0.64 kWh capacity and a 50 Ah rating, making it ideal for various applications. The ES0.64K/12V features a contemporary metal enclosure and weighs only 7.6kg.

At its core, prime-life lithium iron phosphate (LiFePO₄) battery cells power the ES0.64K/12V, 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.



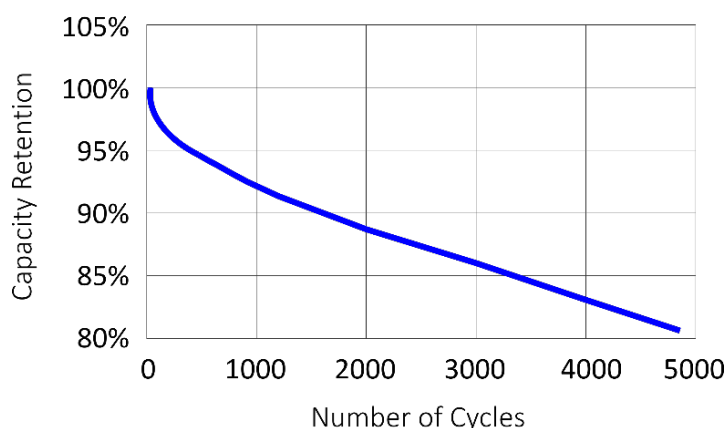
TECHNICAL SPECIFICATIONS ES0.64K

Product code	ES12-50Ah/640
Battery type	Grade A LiFePO ₄ Prismatic Cells
Nominal voltage	12.8 VDC
Nominal capacity	50 Ah
Total energy capacity	0.64 kWh
Energy capacity at 80% DoD	0.512 kWh
Standard charge current	25 A
Max charge current	35 A
Charge voltage Bulk/Absorb	14.1 VDC
Float voltage	14.0 VDC
Standard discharge current	30 A



Max discharge current	50 A
Discharge cut-off voltage	12 V @ 0.005C
BMS	Charge: 80A / Discharge: 80A
Protection	2 x 40 Amp fuses
Parallel connection port	No
CAN-bus communication	No
Operating temperature - Charge:	0 to 45° C
Discharge:	0 to 55° C
Inverter size support	0.5 kVA maximum
Case enclosure	Floor/wall mountable metal enclosure, painted. Indoor/protected under-cover use.
Dimensions (length x width x depth)	185mm x 200mm x 175mm
Weight	7.6kg
Ventilation distance	150mm clear on all sides with no obstructions

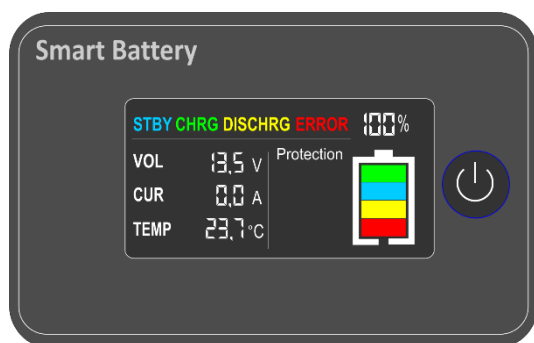
BATTERY CYCLE LIFE AT 25°C (1C/1C)



BMS SCREEN OPTIONS

The battery does not have a fitted BMS screen. For ease of use, a battery monitor screen can be connected to the battery. There are two options available:

1. Standard indicator screen (colour)



2. Touch colour screen



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