

STORAGEDOCK

48 VOLT BATTERY RANGE

TECHNICAL DATA SHEET

ES36K/48V LiFePO₄ Battery Series 315



SHORT DESCRIPTION

Introducing the ES36K/48V-705Ah LiFePO₄ battery, an innovative energy storage solution proudly manufactured in South Africa. This compact battery has a 36.096 kWh capacity and a 705 Ah rating, making it ideal for various applications. The ES36K/48V features a contemporary metal enclosure and weighs 260kg.

At its core, prime-life lithium iron phosphate (LiFePO₄) battery cells power the ES36K/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 ES36K/48V

Product code	ES36K/51/CAN
Battery type	Grade A LiFePO ₄ Prismatic Cells
Nominal Voltage	51.2 VDC
Nominal capacity	705 Ah
Total Energy Capacity	36.096 kWh
Energy Capacity at 80% DoD	28.877 kWh
Standard charge current	200 A
Max charge current	250 A
Charge voltage Bulk/Absorb	56.2 VDC
Float voltage	56.0 VDC
Recommended constant discharge	250 A
Max discharge current	300 A



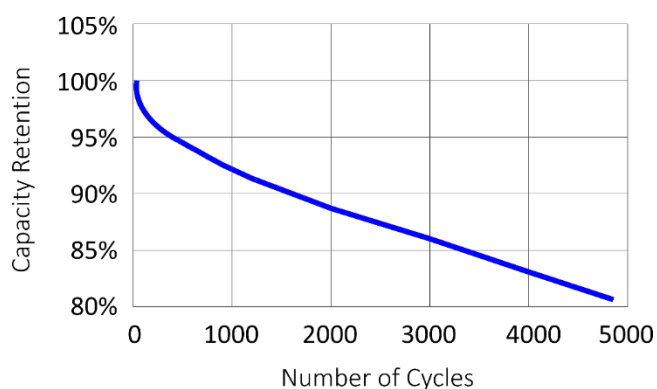
Manufactured by SPECIALIZED SOLAR SYSTEMS

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Discharge cut-off voltage	48 V @ 0.005C
BMS	Charge: 350A / Discharge: 350A
Protection	315 A DP motorized 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	15kVA / 30kVA / 45kVA / 60kVA
Maximum discharge per additional battery	300A / 588A / 880A / 1150A
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)	1070mm x 580mm x 390mm
Weight	260kg
Ventilation distance	150mm clear on all sides with no obstructions
Cycle life	4000 cycles @ 0.5C 80% DoD

BATTERY CYCLE LIFE AT 25°C (1C/1C)



*For more information
and videos, please scan
the QR code*



An APP is available for remote monitoring of this battery. Please enquire regarding details. Please see screenshot examples of the APP below:

