

STORAGE DOCK

ES12.8V/1.28K-100Ah

Specifications
Product code(SKU): ES12-100/1280

12.8V 1.280kWh

3. ES12.8V/1.28K LiFePO₄ Battery

Short description

Introducing the ES12.8V/1.28K-100Ah LiFePO₄ battery, an innovative energy storage solution proudly manufactured in South Africa. This compact battery has a 1.280kWh capacity and a 100Ah rating, making it ideal for various applications. The ES12.8V/1.28K features a contemporary metal enclosure and weighs 12.4kg.

At its core, prime-life lithium iron phosphate (LiFePO₄) battery cells power the ES12.8V/1.28K, known for exceptional performance and longevity. Enduring 4,000 cycles at 80% Depth of Discharge (DOD), it provides a reliable energy storage solution. The ES12.8V/1.28K LiFePO₄ battery includes a proprietary intelligent BMS, actively monitoring and managing the battery's health to safeguard against overcharging and over-discharging.



Technical Specifications

Product Name	ES12.8V/1.28K
SKU (Product code)	ES12-100/1280
Battery Type	Grade A LiFePO ₄ Prismatic Cells
Nominal Voltage (VDC)	12.8V
Nominal Capacity (Ah)	100
Total Energy Capacity (kWh)	1.280
Energy, 80% DoD (kWh)	1.024
Standard Charge Current (A)	50
Max Charge Current (A)	80
Charge V bulk absorption (VDC)	14.1
Charge V float (VDC)	14
Standard discharge current (A)	60
Max. Discharge Current (A)	100
Discharge Cut-off Voltage	12V@0.005C
BMS (Charge/Discharge)	100A/100A
Op.Temp Charge/Discharge	0° to 45°C / 0° to 55°C

Manufactured in George by SPECIALIZED SOLAR SYSTEMS
43 Ossie Urban Street, Tamsui Industria, George, Western Cape, South Africa

+27 (0)44 878 1126 | www.specializedsolarsystems.co.za | info@specializedsolarsystems.co.za | [QEM Status](#) | E&OE



STORAGE DOCK

Protection	125A Circuit breaker
Max Parallel Batteries*	NA
Inverter size per add. battery*	NA
Max. Discharge per ad. battery*	NA
Case Enclosure	Floor/wall mountable metal enclosure, painted. Indoor/protected under-cover use.
Dimensions HxLxW (mm)	310x175x235
Product Weight (kg)	12.4
Warranty / Cycle life	5 Years or 4000 cycles@0.5C 80% DoD

Battery Cycle Life

