

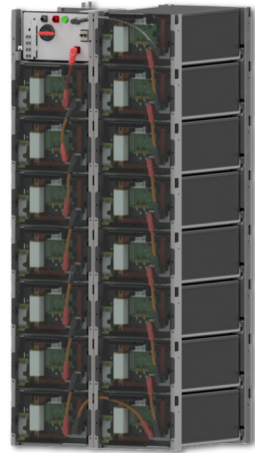
MODULAR ENERGY SYSTEMS EU - PRODUCTS

SOLAR MD SS7023 HIGH VOLTAGE ENERGY SOLUTION

The Solar MD SS7023 is a high voltage energy storage system with the Solar MD advanced BMU and BMS technology, integrated with major inverter brands as well as our data Logger: Logger V2.

The SS7023 is designed to be used in containerised solutions, as well as commercial and industrial locations.

LFP Prismatic Cells are incredibly durable, safe and powerful. Solar MD uses CATL cells and offers a performance guarantee of 12 years on the battery modules.



APPLICATIONS

- Off-grid electricity supplying your own mini grid
- Back-up power
- Peak shaving
- Increased self-consumption and PV usage
- Time of use (Via Logger V2 - limited PCS brands)
- Manual and AI based charging and discharging when you need it
- Power management via Logger V2 and advanced switching of consumers

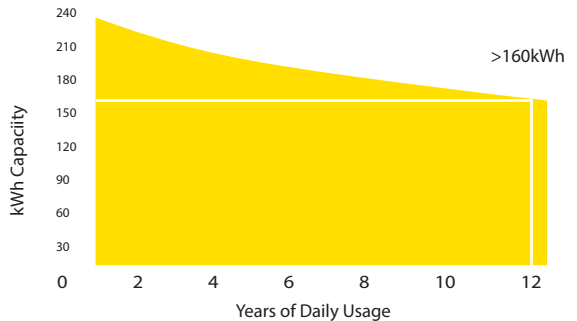
Derating in kWh based on usage of 80 MWh / year

12
YEARS

Energy Output Warranty

5
YEARS

Guarantee on Product
Material and Workmanship



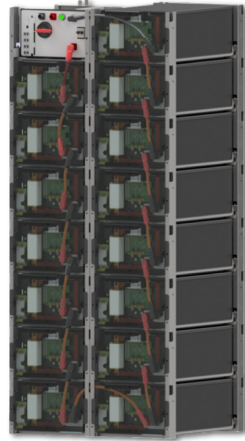
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SS7023

SS7023 has been widely used in energy storage applications in the African market. The battery is produced with the world-leading CATL LiFePO4 technology.

BATTERY FEATURES

- Stable discharge platform
- Excellent safety
- Long life cycle
- High temperature performance
- High energy density
- High charge and discharge rate
- High efficiency
- No pollution



CELL CHEMISTRY	Lithium Iron Phosphate (LiFePO4)
CELL MANUFACTURER	CATL
RATED CAPACITY	228.8kWh
NOMINAL POWER	160.0kW
USABLE BATTERY ENERGY AT 0.3C	208.0kWh
NOMINAL VOLTAGE	819.2V
NUMBER OF BATTERY MODULES	16
WEIGHT PER MODULE	115kg
TOTAL WEIGHT	1940kg
OPERATIONAL VOLTAGE	716.8 - 889.6Vdc
COMMUNICATION	CANBUS / RS485 / Ethernet
DIMENSIONS WxDxH	848mm x 704mm x 2221mm
CYCLE LIFE AT 25°C	≥6000
CHARGING EFFICIENCY	99%
OPERATIONAL TEMPERATURE	0°C to +50°C
TRANSPORT	UN3480 & UN38.3
STORAGE DURATION	6 months @25°C
SAFETY STANDARD COMPLIANCE	IEC 62619 / UN38.3 / UL1642
CELL CERTIFICATE	TUV / CE / UL1642