

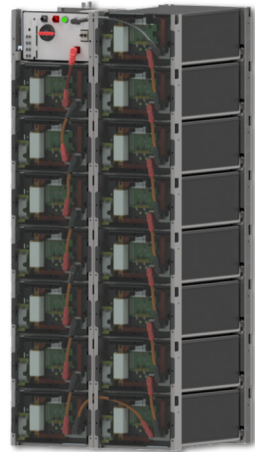
# MODULAR ENERGY SYSTEMS EU - PRODUCTS

## SOLAR MD SS7024 HIGH VOLTAGE ENERGY SOLUTION

The Solar MD SS7024 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 SS7024 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

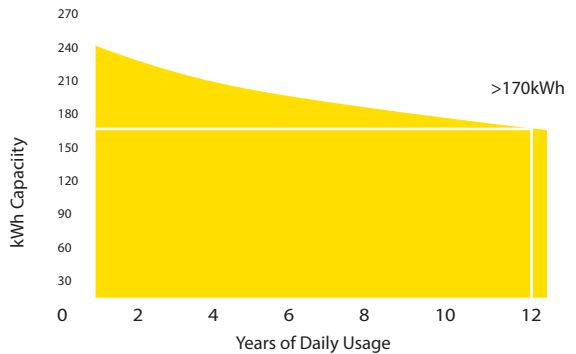
## Derating in kWh based on usage of 85 MWh / year

12  
YEARS

Energy Output Warranty

5  
YEARS

Guarantee on Product  
Material and Workmanship



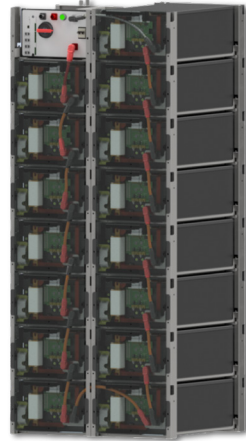
# MODULAR ENERGY SYSTEMS EU - PRODUCTS

## SS7024

SS7024 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



<b>CELL CHEMISTRY</b>	Lithium Iron Phosphate (LiFePO4)
<b>CELL MANUFACTURER</b>	CATL
<b>RATED CAPACITY</b>	243.1kWh
<b>NOMINAL POWER</b>	170.0kW
<b>USABLE BATTERY ENERGY AT 0.3C</b>	221.0kW
<b>NOMINAL VOLTAGE</b>	870.4V
<b>NUMBER OF BATTERY MODULES</b>	17
<b>WEIGHT PER MODULE</b>	115kg
<b>TOTAL WEIGHT</b>	2055kg
<b>OPERATIONAL VOLTAGE</b>	716.8 - 889.6Vdc
<b>COMMUNICATION</b>	CANBUS / RS485 / Ethernet
<b>DIMENSIONS WxDxH</b>	848mm x 704mm x 2221mm
<b>CYCLE LIFE AT 25°C</b>	≥6000
<b>CHARGING EFFICIENCY</b>	99%
<b>OPERATIONAL TEMPERATURE</b>	0°C to +50°C
<b>TRANSPORT</b>	UN3480 & UN38.3
<b>STORAGE DURATION</b>	6 months @25°C
<b>SAFETY STANDARD COMPLIANCE</b>	IEC 62619 / UN38.3 / UL1642
<b>CELL CERTIFICATE</b>	TUV / CE / UL1642