

# SOLAR MD STORAGE PRODUCTS



## SOLAR MD SS4143 - 14.3kWh ADVANCED LITHIUM ION BATTERY

The SS4143 uses lithium iron phosphate cells for its streamlined energy storage.

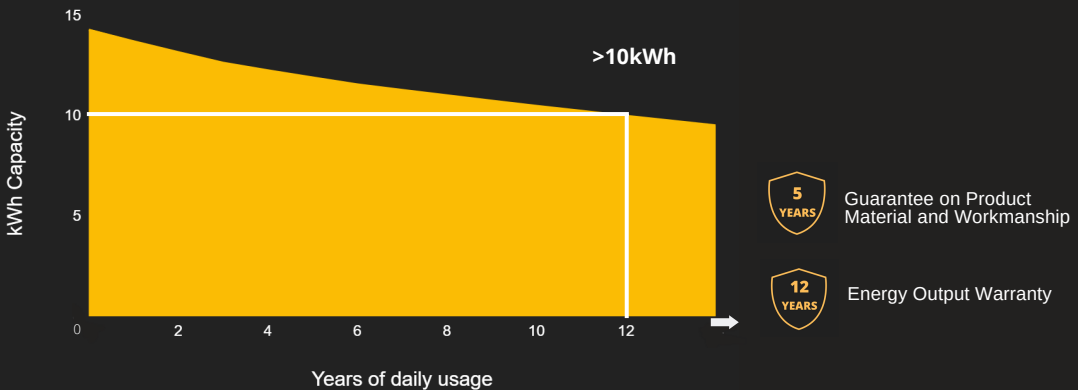
The flexible modular design enables it to be set up with multiple batteries.

Capacity can be increased through a parallel connection of the batteries.

### APPLICATIONS

- ✓ Grid tied, off-grid and hybrid inverter and charger systems
- ✓ Residential and commercial UPS systems

Derating in kWh based on usage of 5 MWh / year



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## SS4143

SS4143 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

SS4143	
Cell chemistry	Lithium Iron Phosphate (LiFePO4)
Cell manufacturer	CATL
Rated capacity	14.3kWh
Nominal Power	10.0kWh
Usable Battery Energy @0.3C	13.0kWh
Nominal Voltage	51.2V
Number of battery modules	1
Weight	118kg
Operational Voltage	44.8 - 55.6Vdc
Communication	CANBUS / RS485
Dimensions W x D x H	675mm x 185mm x 605mm
Cycle life @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 / RCM / UL1642



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