



**Solarworld**  
Energy Solutions Ltd



# BESS

## Battery Energy Storage System

Commercial & Industrial | Residential

# Liquid Cooling Commercial and Industrial ESS 125kW/261.24kWh

## About the product 125kW

This next-generation C&I battery energy storage system sets a new benchmark with its fully liquid-cooled design, delivering exceptional round-trip efficiency of up to 90.3%. The battery and PCS feature a fully liquid cooling design that ensures uncompromised, full-capacity performance, even in extreme ambient temperatures up to 50 °C.



## Product Features & Advantages

### High Performance

- Premium LFP battery with liquid cooling system
- High power density, compact design
- Scalable up to MWh capacity
- Optimised space utilisation

### Assured Safety

- Fire safety design secures minimal risk and loss
- Aerosol Fire Suppression for Precise Protection
- IP67 for battery, IP66 for inverter, IP55 for cabinet
- Advanced fault detection and response

### Intelligent Design

- Advanced energy management system
- Supports remote monitoring and maintenance
- Supports a variety of C&I energy storage scenarios

### Flexible Adaptability

- Grid-connected and off-grid support
- Cell-level balancing and smart temperature control

## Product Specifications



**Rated AC Power**  
125kW



**Rated Energy Capacity**  
261.24kWh



**Battery Chemistry**  
LFP



**Cell**  
3.2/514 Ah



**Configuration**  
1P260S



**Nominal Voltage**  
832V



**Voltage Range**  
728V - 936V



**Cycle Life**  
≥ 8000 cycles @ 90%  
DOD@25°C



**Charge & Discharge Rate**  
0.5C/0.5C



**Cooling Method**  
Liquid-cooled



**Rated Frequency**  
50Hz



**Certifications\***  
IEC 62619, IEC 62477, IEC  
61000-6-2/4, UN 38.3  
IEC-63056



**Protection Features**  
OVP, UVP, OCP, OTP,  
SCP



**Communication**  
CAN, RS485, Ethernet



**Enclosure**  
IP55-rated metal  
enclosure



**Operating Temperature**  
-20°C to +55°C

## Solarworld Energy Solutions Ltd.

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\*Certification In process



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