



**Solarworld**  
Energy Solutions Ltd



# BESS

Battery Energy  
Storage System

Utility Scale

# Liquid cooled ESS Container 5015 kWh

## About the product

A next-generation liquid-cooled energy storage platform is built on advanced prismatic LFP ESS cells (3.2 V / 314 Ah), delivering exceptional cycle life alongside industry-leading safety and performance. Engineered with enhanced protection and reliability at its core, the system is optimized to meet the highest standards of safety, efficiency, and long-term performance. It is ideally suited for industrial, utility, and grid-serving applications.



## Product Features & Advantages

### High Performance

- Premium LFP battery with liquid cooling system
- High power density, compact design
- Scalable up to GWh capacity
- High thermal stability

### Assured Safety

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

### Intelligent Design

- Advanced energy management system
- Advanced three-level battery management system
- Supports remote monitoring and maintenance

### Flexible Adaptability

- Supports on-grid & off-grid
- Cell-level balancing and smart temperature Control

## Product Specifications



**Rated Energy**  
5015 kWh



**Battery Chemistry**  
LFP (Lithium Iron Phosphate)



**Cell**  
3.2V/314 Ah  
Prismatic



**Configuration**  
1P416S\*12



**Nominal Voltage**  
1331.2V



**Voltage Range**  
1164.8-1497.8 V



**Charging & Discharging Power**  
0.5P/0.5P



**Cooling Method**  
Liquid-cooled



**BMS**  
Three Level BMS (Rack, Cluster & Pack)



**BMS Communication**  
CAN, RS485, Ethernet



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



**Encloser**  
IP55



**Fire Suppression System**  
Multi-stage, active fire protection system



**Operating Temperature**  
-30°C to +55°C



**Dimensions (W\*D\*H)**  
W6058\*D2438\*H2896 mm (20HC)



**Certifications\***  
IEC62619, IEC63056, IEC62933, IEC62477-1, IEC6100-6-2/4, UN38.3



**Applications**  
Utility-scale, C&I, and Residential



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

## Solarworld Energy Solutions Ltd.

Corporate Office: Pioneer House – 3rd floor, Plot No. A 45-50, Sector 16, Noida-201301 UP  
Manufacturing Unit: Khasra No. 105, 106, 109, Vardhaman Industrial Estate, Pargana & Tehsil Roorkee, Roorkee, Bahadarpur Saini AH, Haridwar, Uttarakhand – 249405  
Ph: 91-120-4269273 | Mobile: +91 9650164555 | Email: info@worldsolar.in

\*Certification In process



www.worldsolar.in



info@worldsolar.in