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YOUR ENERGY STORAGE SOLUTION

PRODUCT DATASHEET




# PowerCombo 3 MWh

## Battery energy storage system

A 3 MWh, 20 ft liquid-cooled battery energy storage container with integrated power conversion. Suited to utility and commercial and industrial projects: renewable plant support, factories and large buildings.

**3,086** kWh
Energy capacity

**1,600** kW
Rated AC power

**1,760** kW
Maximum AC power

**8,000** cycles
at 70% retention

### Applications

- Smoothing renewable energy output
- Voltage and frequency support
- Peak and off-peak energy shifting
- Demand management
- Microgrids

### Highlights

**All in one**
Batteries, power conversion, controls and cooling in one 20 ft container.

**String level control**
Each battery string has its own power conversion unit for high availability.

**Simple O&M**
No periodic manual balancing, modular design for easy service.

**Safety**
Liquid cooling with dehumidification and FK-5-1-12 fire suppression.

# Technical specifications

| Battery | |
|---|---|
| Battery chemistry | Lithium iron phosphate (LFP) |
| Cell | 3.2 V / 314 Ah |
| Cycle life | 8,000 cycles with 70% retention (0.5C, 25 °C) |
| Battery strings | 8 |
| DC rated energy | 3,086 kWh |
| DC voltage range | 1,075.2 to 1,363.2 V |

| AC output | |
|---|---|
| Rated AC power | 1,600 kW |
| Maximum AC power | 1,760 kW |
| Rated AC current | 1,338.8 A |
| Rated voltage | 690 V, 3W+PE |
| Grid voltage range | 586.5 to 759 V (optional) |
| Frequency | 50 / 60 Hz |
| Power factor | -1 to +1 |
| Current THD | < 3% |

| General | |
|---|---|
| Dimensions (L x W x H) | 6,058 x 2,438 x 2,896 mm (20 ft) |
| Weight | ≤ 31 t |
| Protection degree | IP54 |
| Operating temperature | -30 to 50 °C |
| Relative humidity | 0 to 95% (non-condensing) |
| Altitude | Up to 2,000 m without derating |
| Thermal management | Liquid cooling and dehumidification |
| Fire protection | FK-5-1-12 |
| Communication | RS485, Ethernet |

| Certificates and compliance | |
|---|---|
| Certificates | UL 1973, UL 9540A, UL 9540, IEC 62619, CE, UN 38.3 |
| Compliance | IEC 62933, NFPA 855 |

Values are nominal and may vary by project configuration. Final values are confirmed in the project offer. Images are illustrations.