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PRODUCT DATASHEET



# PowerCombo E5

## Battery energy storage system · AC Block

A 5 MWh, 20 ft liquid-cooled battery energy storage container with integrated power conversion. Built for utility-scale projects: storing and shifting renewable energy, standalone grid support, peak shaving and microgrids.

**5,015** kWh
Energy capacity

**2,580** kW
Rated AC power (2 h)

**1,500** kW
Rated AC power (4 h)

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

### Applications

- Time shifting of solar and wind output
- Grid support: voltage and frequency regulation
- Peak shaving and demand management
- Microgrids and islanded operation
- Grid-forming operation

### Highlights

**AC Block**
Batteries and power conversion in one container, prewired for quick commissioning.

**Liquid cooling**
Battery packs and power conversion are liquid cooled for stable temperatures.

**Multi-level safety**
Pack and string level monitoring, aerosol extinguishing and pre-installed sprinkler.

**Grid-forming**
Virtual synchronous generator control for inertia, damping and islanded operation.

# 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 | 12 |
| DC rated energy | 5,015 kWh |
| DC voltage range | 1,164.8 to 1,476.8 V |

| AC output | |
|---|---|
| Configuration | 2 h \| 4 h |
| Rated AC power | 2,580 kW \| 1,500 kW |
| Maximum AC power | 2,838 kW \| 1,650 kW |
| Rated AC current | 2,158 A \| 1,255 A |
| Rated voltage | 690 V, 3W+PE |
| Grid voltage range | 586.5 to 759 V (adjustable) |
| Frequency | 50 / 60 Hz |
| Power factor | -1 to +1 |
| Current THD | < 3% at rated load |

| General | |
|---|---|
| Dimensions (L x W x H) | 6,058 x 2,438 x 2,896 mm (20 ft) |
| Weight | ≤ 44 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 for battery packs and PCS |
| Fire protection | PFAS-free aerosol agent, listed fire control panel, pre-installed sprinkler |
| Auxiliary peak load | 63 kW, 400 V 3P4W |
| Communication | Ethernet, Modbus TCP/IP |

| 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.