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**PRODUCT DATASHEET**
REV. 1.0 · NOVEMBER 2026
10 FT BESS · 1500 V / 1000 V

CONTAINERISED BATTERY ENERGY STORAGE

# 10 ft BESS

1500 V & 1000 V platforms · 1,567 – 2,507 kWh · LFP, liquid-cooled, IP55




| | |
|---|---|
| DC capacity (BOL) | **1,567 – 2,507 kWh** |
| DC voltage | **832 V / 1,331.2 V** |
| Max. P-rate | **0.5P** |
| Footprint | **3,420 × 2,438 mm** |
| Enclosure | **IP55 · RAL 7035** |
| Cell | **LFP 314 Ah** |

A 10 ft, liquid-cooled battery energy storage container offered by Eternity Renewable on Wolong's DC-side platform, in two voltage classes — 1,331.2 V for 1500 V system architectures and 832 V for 1000 V architectures — with two capacity points per class. All four variants share one enclosure, one battery pack family and one control, thermal and fire-protection concept, so a project can be configured at either voltage class without changing the balance-of-plant, the installation method or the O&M regime.

MODEL LINE-UP

| Model | Platform | DC capacity | Configuration | Rated voltage | Current | Max. power |
|---|---|---|---|---|---|---|
| WL-ESS-2507kWh-1500V | 1500 V | **2,507 kWh** | 6P416S | 1,331.2 V | 1,884 Ah | 1,254 kW |
| WL-ESS-2089kWh-1500V | 1500 V | **2,089 kWh** | 5P416S | 1,331.2 V | 1,570 Ah | 1,045 kW |
| WL-ESS-2089kWh-1000V | 1000 V | **2,089 kWh** | 8P260S | 832 V | 2,512 Ah | 1,045 kW |
| WL-ESS-1567kWh-1000V | 1000 V | **1,567 kWh** | 6P260S | 832 V | 1,884 Ah | 784 kW |

Rated capacity is the DC-side energy at beginning of life (BOL). Max. power derived at the 0.5P maximum P-rate. Full parameters in section 02.

01 — PLATFORM

# One container, two voltage classes

Every variant is built from the same three levels: a 3.2 V LFP cell assembled into a pack, packs series-connected into a cluster sized for the DC bus class, and clusters paralleled inside the container to set capacity. The 1500 V platform uses 104-cell packs and 416-cell clusters; the 1000 V platform uses 52-cell packs and 260-cell clusters. Capacity is then simply the number of parallel clusters.

| LEVEL | 1500 V PLATFORM<br>416S CLUSTERS · 1,331.2 V RATED | 1000 V PLATFORM<br>260S CLUSTERS · 832 V RATED |
|---|---|---|
| **Cell** | LFP, 314 Ah, 3.2 V nominal | LFP, 314 Ah, 3.2 V nominal |
| **Pack** | 1P104S — 332.8 V, 104.5 kWh | 1P52S — 166.4 V, 52.2 kWh |
| **Cluster** | 1P416S — 1,331.2 V, 418.0 kWh<br>4 packs in series | 1P260S — 832 V, 261.2 kWh<br>5 packs in series |
| **Container** | 2,507 kWh = 6 clusters / 24 packs<br>2,089 kWh = 5 clusters / 20 packs | 2,089 kWh = 8 clusters / 40 packs<br>1,567 kWh = 6 clusters / 30 packs |

## Model comparison

ELECTRICAL AND MECHANICAL COMPARISON

| Parameter | 2507-1500V | 2089-1500V | 2089-1000V | 1567-1000V |
|---|---|---|---|---|
| **DC SIDE** | | | | |
| Rated capacity (DC, BOL) | **2,507 kWh** | **2,089 kWh** | **2,089 kWh** | **1,567 kWh** |
| Configuration | 6P416S | 5P416S | 8P260S | 6P260S |
| Rated voltage | 1,331.2 V | 1,331.2 V | 832 V | 832 V |
| Voltage range | 1,164.8 – 1,497.6 V | 1,164.8 – 1,497.6 V | 728 – 936 V [b] | 728 – 936 V [b] |
| Rated charge capacity (Ah) | 1,884 Ah | 1,570 Ah | **2,512 Ah** | 1,884 Ah |
| Maximum P-rate | 0.5P | 0.5P | 0.5P | 0.5P |
| Max. power at 0.5P [c] | 1,254 kW | 1,045 kW | 1,045 kW | **784 kW** |
| Packs in container | 24 | 20 | **40** | 30 |
| **ENCLOSURE** | | | | |
| Container size (W×D×H) | 3,420 × 2,438 × 2,896 mm (10 ft) | | | |
| Container weight | 23,000 kg | Per configuration [d] | | |
| Colour | RAL 7035 | | | |
| IP level | IP55 | | | |
| Anti-corrosion | C4 (default) · C5 (optional) | | | |

[b] Derived at 2.8–3.6 V/cell, the same cell window used in the published 1500 V voltage range. [c] Rated capacity × 0.5P. [d] Weight varies with the number of packs; the 23,000 kg figure is the published value for the 2,507 kWh variant — confirm at order.

**Choosing a class.** The 1500 V platform halves the DC current for a given power, which suits longer clusters, fewer parallel clusters and lower DC cable and protection cost per kWh. The 1000 V platform fits 1000 V-rated PCS and existing 1000 V balance-of-plant, and reaches the same 2,089 kWh capacity with eight parallel clusters at 832 V — the better fit where the wider 1000 V equipment ecosystem is already standard. Within a class, capacity is set purely by cluster count: 5 or 6 clusters on 1500 V, 6 or 8 clusters on 1000 V.

02 — TECHNICAL DATA

# Technical specifications

SYSTEM PARAMETERS — COMMON TO ALL FOUR VARIANTS

| | |
|---|---|
| Battery cell type | LFP / 314 Ah |
| Battery configuration | 1500 V: 6P416S / 5P416S · 1000 V: 8P260S / 6P260S |
| Rated capacity (DC, BOL) | 1,567 / 2,089 / 2,507 kWh |
| Maximum P-rate | 0.5P |
| Battery rated voltage | 1,331.2 V (1500 V) · 832 V (1000 V) |
| Voltage range | 1,164.8 – 1,497.6 V (1500 V) · 728 – 936 V (1000 V) [b] |
| Container size (W×D×H) | 3,420 × 2,438 × 2,896 mm |
| Container weight | 23,000 kg (2,507 kWh variant) [d] |
| Container colour | RAL 7035 |
| IP level | IP55 |
| Anti-corrosion | Default C4 · optional C5 |
| Operating temperature range | −25 to +50 °C (de-rating above 45 °C) |
| Relative humidity | 5% – 95% |
| Highest working altitude | 3,000 m |
| Temperature control method | Liquid cooling |

## Safety, control and communication

| | |
|---|---|
| Fire suppression system | **Default:** aerosol, smoke and temperature detector, ventilation system with flammable gas detector, dry-pipe fire sprinkler<br>**Optional:** deflagration panel |
| Communication interface | Ethernet |
| Communication protocol | Modbus TCP, IEC 61850, IEC 104 |
| Standard compliances | IEC 62619, IEC 61000-6-2 & -6-4, IEC 62477-1, UL 9540A, UL 9540, UL 1973, NFPA 69, UN 38.3 |

## Design features

### High efficiency, long lifespan

LFP chemistry, liquid cooling and a 0.5P maximum P-rate keep cell temperature spread down and cycle life predictable over the project term.

### Safe and reliable, low maintenance

Aerosol suppression, smoke and temperature detection, flammable gas detection, ventilation and dry-pipe sprinkler as standard; deflagration panel optional.

### High integration, fast installation

Battery, thermal management, fire protection, controls and communication arrive in one 10 ft container — no on-site pack assembly.

### All-terrain, grid-operator ready

IP55, C4 anti-corrosion (C5 optional), −25 °C operation to 3,000 m; Ethernet with Modbus TCP, IEC 61850 and IEC 104.

Specifications are common to the four variants unless stated otherwise. Values are as published by Wolong for the WL-ESS-2507kWh-1500V system; capacity, configuration, current and current-derived figures vary by model as shown in section 01.

03 — CONFIGURATIONS

# Configuration detail and ordering notes

## 1500 V platform — 416S clusters

WL-ESS-2507KWH-1500V · 6 CLUSTERS IN PARALLEL · CAPACITY IN KWH, CHARGE CAPACITY IN AH

| Level | Parallel | Series | Voltage | Charge capacity | Capacity |
|---|---|---|---|---|---|
| Cell | — | — | 3.2 V | 314 Ah | — |
| Pack (电池箱) | 1P | 104S | 332.8 V | 314 Ah | 104.4992 kWh |
| Cluster (电池簇) | 1P | 416S | 1,331.2 V | 314 Ah | 417.9968 kWh |
| Container (电池柜) | 6P | 416S | 1,331.2 V | 1,884 Ah | 2,507.9808 kWh |

WL-ESS-2089KWH-1500V · 5 CLUSTERS IN PARALLEL

| Level | Parallel | Series | Voltage | Charge capacity | Capacity |
|---|---|---|---|---|---|
| Cell | — | — | 3.2 V | 314 Ah | — |
| Pack (电池箱) | 1P | 104S | 332.8 V | 314 Ah | 104.4992 kWh |
| Cluster (电池簇) | 1P | 416S | 1,331.2 V | 314 Ah | 417.9968 kWh |
| Container (电池柜) | 5P | 416S | 1,331.2 V | 1,570 Ah | 2,089.984 kWh |

## 1000 V platform — 260S clusters

WL-ESS-2089KWH-1000V · 8 CLUSTERS IN PARALLEL

| Level | Parallel | Series | Voltage | Charge capacity | Capacity |
|---|---|---|---|---|---|
| Cell | — | — | 3.2 V | 314 Ah | — |
| Pack (电池箱) | 1P | 52S | 166.4 V | 314 Ah | 52.2496 kWh |
| Cluster (电池簇) | 1P | 260S | 832 V | 314 Ah | 261.248 kWh |
| Container (电池柜) | 8P | 260S | 832 V | 2,512 Ah | 2,089.984 kWh |

WL-ESS-1567KWH-1000V · 6 CLUSTERS IN PARALLEL

| Level | Parallel | Series | Voltage | Charge capacity | Capacity |
|---|---|---|---|---|---|
| Cell | — | — | 3.2 V | 314 Ah | — |
| Pack (电池箱) | 1P | 52S | 166.4 V | 314 Ah | 52.2496 kWh |
| Cluster (电池簇) | 1P | 260S | 832 V | 314 Ah | 261.248 kWh |
| Container (电池柜) | 6P | 260S | 832 V | 1,884 Ah | 1,567.488 kWh |

## Ordering notes

- Four variants: **WL-ESS-2507kWh-1500V** and **WL-ESS-2089kWh-1500V** on the 1500 V platform; **WL-ESS-2089kWh-1000V** and **WL-ESS-1567kWh-1000V** on the 1000 V platform. The DC capacity in the model code is the BOL DC-side energy.
- The 2507 and 2089 (1500 V) models share 104S packs and 416S clusters; the 2089 and 1567 (1000 V) models share 52S packs and 260S clusters — spares are common within a voltage class.
- 1000 V voltage ranges are derived at 2.8–3.6 V/cell from the published cell window of the 1500 V model; weight of the 2,089 kWh and 1,567 kWh variants is configuration-dependent and confirmed at order. Usable energy depends on the agreed depth of discharge and state-of-health window.
- Anti-corrosion C5, deflagration panel and project-specific nameplate branding are available as options. Issued by Eternity Renewable for a Wolong-built DC-side platform; specification subject to change without notice.