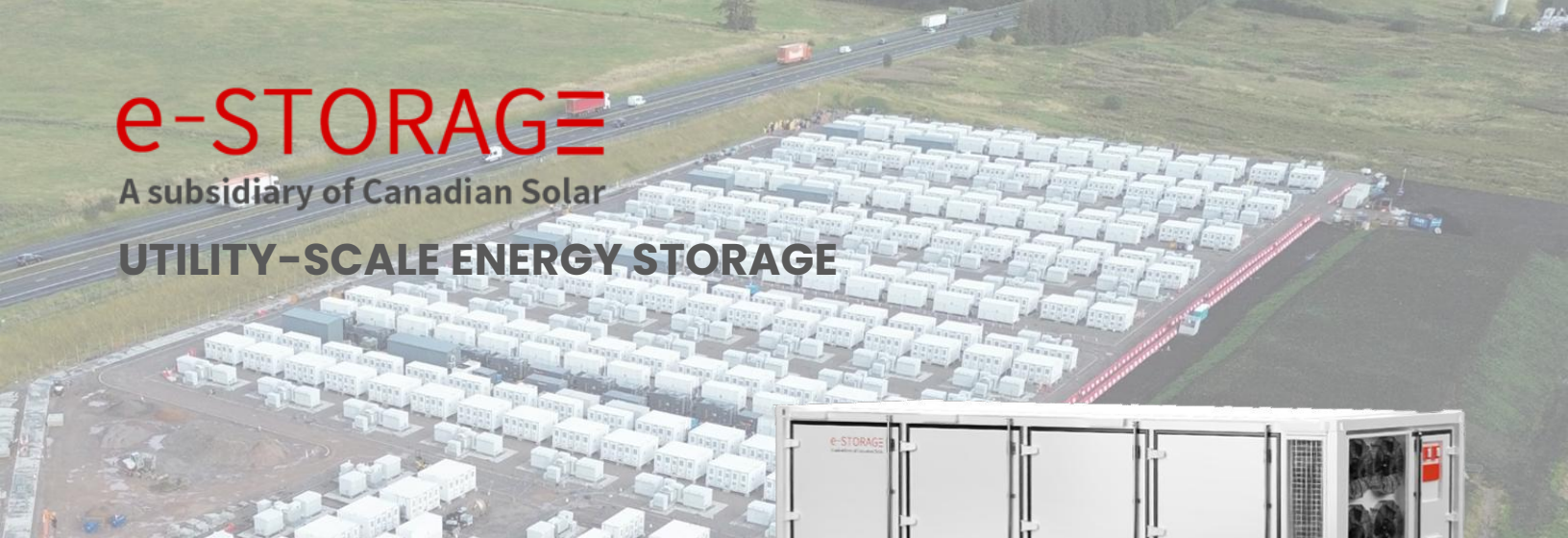


# e-STORAGE

A subsidiary of Canadian Solar

## UTILITY-SCALE ENERGY STORAGE



### SolBank 4.0

#### Energy Storage System

S-6250-2h-EU | S-6250-4h-EU | S-6250-8h-EU



**e-STORAGE**, a subsidiary of **Canadian Solar**, is a world-class energy storage solution provider, specializing in storage system design, manufacturing, and integration of battery energy storage systems for utility-scale applications.

We empower customers to deploy bankable, ready-to-operate energy storage projects through our integrated consulting, turnkey EPC, and proprietary containerized battery solution.

**Together, we are building a brighter, greener future for all.**

### Key Features

#### Enhanced Energy Density

- Highly integrated design achieve 6.25MWh for a power block, maximizes space utilization and reduces the number of components required
- Support side by side and back-to-back installation, 100MWh project energy density increases more than 15%

#### Lifecycle Performance Optimization

- High energy throughput and system efficiency across the full lifecycle are ensured by advanced cell chemistry, thermal management, active balancing BMS technology, and degradation control strategies..

#### Highlights

SolBank 4.0 is a 6.25 MWh high-density energy storage system engineered for utility-scale performance. Its integrated design and advanced LFP technology reduce installation complexity and total cost of ownership, ensuring safe, reliable, and cost-efficient operation throughout up to 25-year lifecycle.

Adheres to all industry standards: IEC 62619, IEC 63056, IEC62477-1, IEC 62933-5-2, IEC 61000-6-2, UL 9540A, NFPA 855, NFPA69, UN38.3/UN3536, and optional NFPA68, ensuring rigorous safety and performance criteria.

#### Compatibility & Installation

- The containerized system achieves high integration through factory-based pre-installation, reducing the EPC cost.
- An intelligent thermal management system featuring eco-friendly refrigerants, low power consumption, and controlled noise levels.

#### Intelligent Control

- Features advanced cell-level precision management, which maximizes early risk warnings, enhancing overall system stability and balance



SolBank 4.0  
System Parameter



| General                                  |                              |        |         |
|------------------------------------------|------------------------------|--------|---------|
| Battery Chemistry                        | Lithium Iron Phosphate (LFP) |        |         |
| Module Configuration                     | 1P104S (104 Cells)           |        |         |
| Rack Configuration                       | 4*1P104S (4 Packs)           |        |         |
| System Configuration                     | 8*1P416S (8 racks)           |        |         |
| Nominal Capacity*                        | 6250 kWh                     |        |         |
| Charging/Discharging Mode                | 0.5 P                        | 0.25 P | 0.125 P |
| Nominal DC Power                         | 3125kW                       | 1563kW | 781kW   |
| Duration                                 | 2h                           | 4h     | 8h      |
| Round Trip Efficiency (RTE) <sup>2</sup> | 93%                          | 94%    | 95.5%   |
| Nominal DC Voltage                       | 1331.2 V                     |        |         |
| Operation DC Voltage Range <sup>1</sup>  | 1164.8 V ~ 1497.6 V          |        |         |

| Product Model                                        | CSI-SolBank-S-6250-2h-EU                     | CSI-SolBank-S-6250-4h-EU | CSI-SolBank-S-6250-8h-EU |
|------------------------------------------------------|----------------------------------------------|--------------------------|--------------------------|
| Operating Temperature (Ambient)                      | -30 °C to 55 °C (derating from 45°C to 55°C) |                          |                          |
| Relative Humidity <sup>3</sup>                       | ≤95% (non-condensing)                        |                          |                          |
| Altitude                                             | ≤2000 m (derating from 2000 m to 4000 m)     |                          |                          |
| Noise Sound Pressure Level (LPA) at 1 meter distance | ≤85 dB(A)                                    | ≤75 dB(A)                | ≤75 dB(A)                |

| Auxiliary Systems                |                                             |
|----------------------------------|---------------------------------------------|
| Auxiliary Power Interface        | 3P5W /AC 400V 50Hz                          |
| Thermal Management System        | Smart liquid cooling/heating                |
| External Communication Interface | Ethernet connection, Modbus TCP/IP protocol |

| Mechanical                |                                            |
|---------------------------|--------------------------------------------|
| Enclosure                 | 20ft. High-cube container                  |
| Dimensions (L*W*H)        | 6058*2438*2896 mm (238.50*95.98*114.02 in) |
| Weight (Battery Included) | 48,000 kg (105,822 lbs)                    |
| Enclosure Ingress Rating  | IP55 / NEMA 3R                             |
| Painting/Coating          | RAL9003 / C4 Coating                       |
| Seismic Parameter         | Zone 4                                     |

| Safety                            |                                                                                                           |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------|
| Fire Detection and Alarm          | Fire alarm panel, heat and smoke detection, alarm bell and strobe                                         |
| Explosion Prevention              | Combustible gas detector with active ventilation                                                          |
| Uninterrupted Power Reserve       | Container level UPS for 2-hr control system backup; dedicated fire safety UPS for 24-hr fire alarm backup |
| Emergency Stop/Automatic Shut-off | Local and Remote                                                                                          |
| Fire Suppression Options          | Aerosol-based suppression system. Dry pipe sprinkler system.                                              |

Notes:

\* Nominal capacity/DC power is a calculated number using the entire summation of the cells and their specified capacities/power.  
1. The unit is rated at 1164.8V~1497.6V for optimized product performance, the maximum voltage range for the battery system is 1060.8V~1497.6V

Due to ongoing innovation, improvements, and product enhancements, the technical specifications in this document are subject to change and are not guaranteed. Canadian Solar reserves the right to update or change its products or this technical data without prior notice and customers should not rely upon these or any technical specifications which are not made part of a definitive binding agreement.