

# e-STORAGE

A subsidiary of Canadian Solar

## UTILITY-SCALE ENERGY STORAGE



### FlexBank 1.0

#### ENERGY STORAGE SYSTEM

S-8360-2H | S-8360-4H

**Capacity: 8.36 MWh**



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.

The company offers value-added system consulting and turnkey EPC services, in addition, we provide customers with our proprietary LFP battery solution FlexBank.

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

### Key Features

#### Modular Design

- A modular open-frame structure, which simplifies product shipment, meet the transportation needs of different regions
- Compatible with all major inverter solutions, providing maximum flexibility for initial system sizing and future augmentation.

#### Compatibility & Installation

- Modular design enabled by Flex Mount Skid, allowing modular shipping, rapid on-site assembly, and fast commissioning.
- Support side by side and back-to-back installation, Reduces EPC cost, supporting versatile installation configurations with enhanced project energy density.

#### FlexBank 1.0 Highlights

- **Cutting-Edge Technology:** An energy storage system can offer an expandable capacity up to 8.36 MWh and up to 20 years lifespan. It uses 314Ah cells with best balance of high performance and reliability and is compactly integrated within flexible modular cabinet.
- **Compliance and Certifications:** FlexBank 1.0 adheres to all industry standards: IEC62619, IEC63056, IEC62477-1, IEC62933-5-2, IEC61000-6-2, UL9540A, NFPA69, NFPA855 and UN38.3/UN3536, ensuring rigorous safety and performance criteria.

#### Safety

- Three level electrical protection, ensure system security
- Heat bridge barrier technology, provide reliable protection under extreme condition

#### Intelligent Control

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

#### Market Recognition

- Share the same battery and pack supply chain with SolBank3.0, market-tested performance and reliability.



## FlexBank 1.0

### Flex Cabinet Parameter

General		
Product Model		CSI-FlexBank-C-1672-2h CSI-FlexBank-C-1672-4h
Battery Capacity		314 Ah
Battery Chemistry		Lithium Iron Phosphate (LFP)
Module Configuration		1P104S (104 Cells)
Rack Configuration		4*4*1P104S
Nominal DC Voltage		1331.2 V
Operation DC Voltage Range <sup>(1)</sup>		1164.8 V ~ 1497.6 V
Charging/Discharging Mode	0.5 P / 0.5 P	0.25 P / 0.25 P
Norminal Capacity*	1672 kWh	1672 kWh
Norminal DC Power	836 kW	418 kW
Duration @Rated DC Power	2hrs	4hrs
Round Trip Efficiency (RTE) <sup>(2)</sup>	93%	94%
Weight (Battery Included)	About 13,000 kg (28,660.09 lbs)	
Noise Sound Pressure Level (LPA) at 1 meter distance	≤75 dB(A)	



### Flex Block Parameter

General (5 Cabinets)		
Product Model	CSI-FlexBank-S-8360-2h	CSI-FlexBank-S-8360-4h
Charging/Discharging Mode	0.5 P / 0.5 P	0.25 P / 0.25 P
Norminal Capacity*	8360 kWh	8360 kWh
Norminal DC Power	4180 kW	2090 kW
Duration @Rated DC Power	2hrs	4hrs
Round Trip Efficiency (RTE) <sup>(2)</sup>	93%	94%
Operating Temperature (Ambient) <sup>(3)</sup>	-30 °C to 55 °C (derating from 45°C to 55°C)	
Relative Humidity <sup>(3)</sup>	≤95% (non-condensing)	
Altitude	≤4000 m (derating from 2000 m to 4000 m)	

#### Notes

\* Nominal capacity is a calculated number using the entire summation of the cells and their specified capacities.

(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.

(2): DC RTE is measured during capacity test at Rated DC Power, refer to the product warranty document for the complete procedure.

(3): Options need to be selected to fully meet the 55°C, 95% RH.

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