

VentureEdge Liquid-Cooled Modular Integrated Cabinet

VentureEdge 800

■ PRODUCT INTRODUCTION

The liquid-cooled modular integrated cabinet integrates liquid-cooled modules, BMS control system, air-cooled PCS, liquid-cooled thermal management system and active fire protection system. It features grid support functions and safety protection designs, suitable for grid side and large-capacity energy storage projects supporting renewable energy, and facilitates the construction of new power systems.



Technical Advantages

- **Simplified architecture:** Eliminates the need for energy storage transformers.
- **Higher efficiency:** Reduces conversion loss by approximately 1%.
- **Lower initial investment:** Smaller footprint, fewer components, and lower costs.



Customer Value

- **Better investment returns:** Saves transformer costs for faster payback.
- **Lower total cost of ownership:** Higher energy output with simpler maintenance.
- **Flexible deployment:** Easy expansion, can be directly adapted to existing photovoltaic sites.



Application Scenarios

- Suitable for expanding existing 800 V photovoltaic systems.

■ PRODUCT SPECIFICATIONS

Item	VentureEdge 800
DC Side Parameters (0.5P)	
Nominal Capacity	418 kWh
Rated DC Current	157 A
Maximum DC Current	179.4 A
DC Voltage Range	DC 1164.8 V to 1497.6 V
AC Parameters	
Rated AC Power	200 kW
Rated AC Voltage	AC 800 V
Rated Frequency	50 / 60 Hz
Rated Current	145 A
Power Factor	0.99/-1~1
Overload Capability	110 % continuous (long-term)
Basic Parameters	
System Peak Efficiency	90% (Excluding Auxiliary Power)
Fire-suppressant Agent	Electrical-control Condensed Aerosol
Auxiliary Power Consumption	3.2 kW
Cooling Method	The energy storage battery module is liquid-cooled, while the PCS is air-cooled.
Dimensions (LxWxH)	1600 x 1350 x 2450 mm
Operating Temperature Range	-30 °C to 55 °C
Operating Humidity Range	0 - 95%
Storage Temperature Range	-30 °C to 55 °C
IP Rating	Overall IP54
Altitude	≤ 2000 m / < 3000 m (available, derate)
Acoustic Noise	≤ 75 dB (1m)

This document is regularly updated for accuracy and improvement. Please verify you are using the latest version. Illustrations are for reference only.



RelyEZ Energy Storage Technology Co., Ltd.

A3802, 3803, 3804 Building 11A, Shenzhen Bay Science and Technology Ecological Park, No. 16 Keji South Road, Nanshan District, Shenzhen, Guangdong, China

✉ relyez@relyez.com

🌐 www.relyez.com