

RelyEZ VentureBooster Liquid-Cooled Energy Storage System

VentureBooster 800

■ PRODUCT INTRODUCTION

Features an integrated AC-DC design. "One Cluster, One Management" enables fine-grained energy management and status diagnostics at the rack level, fundamentally solving the "cask effect" and improving system energy utilization. The advanced liquid cooling circulation design reduces the impact of battery thermal runaway propagation, effectively enhancing overall system safety and extending the full service life of energy storage batteries, providing a safer technical guarantee for system operation.



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.

Energy Storage System

The battery compartment contains 5 battery clusters, 1 control cabinet, 1 fire protection system, and 1 liquid cooling system.

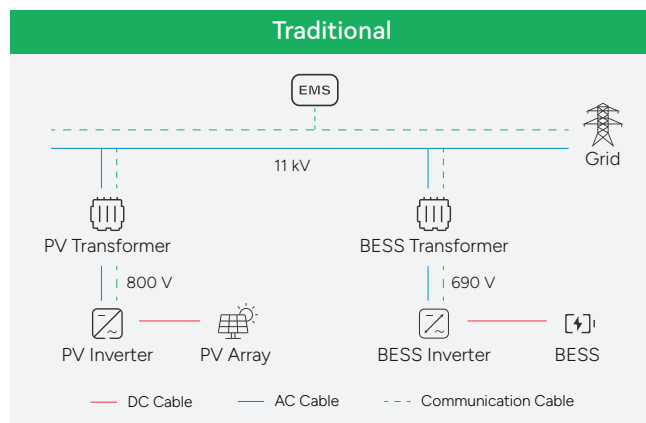
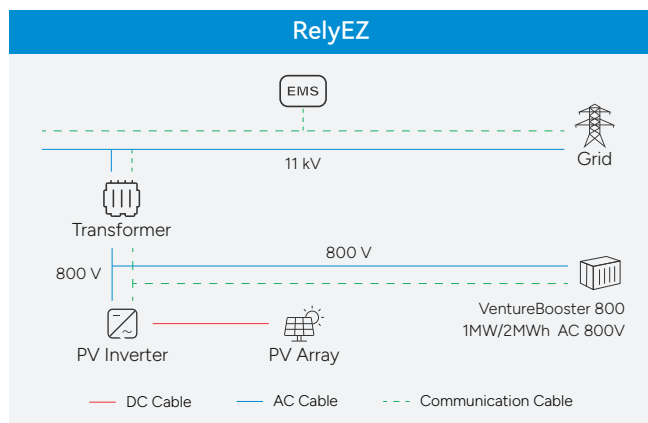
Battery Cluster

Each battery cluster consists of 4 liquid-cooled energy storage modules and 1 high-voltage control box.

Liquid-Cooled Energy Storage Modules

Each liquid-cooled energy storage module consists of 104 pieces of 314Ah LFP cells configured in a 1P104S arrangement. It features high energy density, wide operating temperature range, long service life, high protection rating, and multiple safety protections.

■ 800V AC-COUPLED SOLAR-STORAGE SOLUTION



■ PRODUCT SPECIFICATIONS

Item	VentureBooster 800
DC Side Parameters (0.5P)	
System Nominal Energy	5x418 kWh
Single Unit Configuration	416 S
Rated DC Current	157 A
Max DC Current	179.4 A
DC Voltage Range	DC 1164.8~1497.6 V
System Parameters	
Rated AC Power	5x200 kW
Rated AC Voltage	AC 800 V
Rated Frequency	50 / 60 Hz
Rated Current	5x145 A
Power Factor	0.99/-1~1
THDI	<3% (Rated Power)
Basic Parameters	
Maximum system efficiency	88% (Auxiliary Power Excluded)
Auxiliary power consumption	22 kW
Fire Suppressant	Electrically Activated Aerosol
Cooling Method	Liquid Cooling for Battery Modules / Air Cooling for PCS
Dimensions (LxWxH)	6058x2438x2896 mm
Weight	Approximately 23.5 t
Operating Temperature	-30~+55 °C
Operating Humidity	0~95%
IP Rating	IP55
Altitude	≤2000 m / <3000 m (Optional, Derated)
Acoustic Noise	≤ 75 dB (1m)
Certifications/Reports	IEC 62619, IEC 60730-1, IEC 63056, IEC 62477-1, IEC 61000-6-2/4, (EU) 2023/1542, UN 38.3, UN 3536

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