

RelyEZ VenturePro

Liquid-Cooled Commercial and Industrial Integrated Cabinet

VenturePro 250 (UL Edition / IEC Edition)

■ SYSTEM INTRODUCTION

The liquid-cooled commercial and industrial integrated cabinet integrates liquid-cooled modules, a new-generation BMS control system, liquid-cooled PCS, an intelligent liquid-cooled thermal management system and an active fire protection system. It features grid support capabilities, safety protection designs and optimized economic efficiency, suitable for small and medium-sized energy storage projects such as user side and microgrid applications, supporting the construction of new power systems.



Flexible Expansion

Modular All-in-One design delivers direct AC output, supporting multi-cabinet AC parallel for flexible capacity scaling with upgraded power & energy density.



Liquid Cooling for Higher Efficiency

Liquid cooling lifts round-trip efficiency by ~1% vs 2-level topology; 3-level PCS achieves peak efficiency up to 98.3%.



Cluster-Separated Safety Architecture

Per-cluster independent DC layout eliminates inter-cluster DC parallel to constrain short-circuit current. Cabinets feature full electrical & fire isolation, with cell temperature differential capped $\leq 3^{\circ}\text{C}$ for reliable long-term operation.

■ PRODUCT SPECIFICATIONS

Item	VenturePro 250 YXYK-125K/552314-L	VenturePro 250 YXYK-125K/552314-M
Battery Parameters		
Nominal Energy	250 kWh	
Nominal Battery Voltage	DC 832 V	
Battery Voltage Range	DC 728~936 V	
Max Battery Current	179.4 A	
AC Side Parameters (Grid Connection)		
Rated Power	125 kW	
Rated AC Output Current	180 A	150 A
Rated Grid Voltage	400 V	480 V
Output Voltage Range	-15% ~ 10%	-10% ~ 5%
Rated Frequency	50/60 Hz ± 5 Hz	60 Hz ± 3 Hz
Off Grid Switching Time	<20 ms	
THDI	<3%(Rated Power)	
Basic Parameters		
Product Dimensions (LxWxH)	1400x1350x2250(mm)	
Weight	≤3.5 t	
Max Allowable Altitude	≤2000 m / <3000 m (Optional, Derated)	
Allowable Ambient Temperature	-30 °C~50 °C	
System Cycle Life	≥8000 cycles	
Fire Protection	Aerosol	
IP Rating	Enclosure IP54	
Cooling Method	Liquid Cooling	
Acoustic Noise	<79 dB (1m)	
Certifications/Reports	UL 60730-1, UL9540, UL1973, UL9540A, FCC Part 15B, IEC 62619, IEC 60730-1, IEC 63056, IEC 62477-1, IEC 61000-6-2/4, UN 38.3, UN 3480	
Warranty		
Standard	5 years (included)	
Extended Warranty	5 / 10 years	

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



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