
RelyEZ VenturePro Series

250kWh

All-in-one Liquid-Cooled Energy Storage



Product Introduction

VenturePro 250 is an all-in-one energy storage solution designed to cover the needs of most industrial and commercial users.

System Components

The 250 kWh solution comes with the factory-assembled battery rack, high voltage box, integrated BMS, auxiliary power supply, liquid-cooling system, fire protection system and PCS.

Battery Rack and Modules

VenturePro 250 is composed of a single rack which contains 5 modules, each delivering over 52 kWh. RelyEZ's module is made up of 52 LFP prismatic cells, each delivering up to 314Ah.



High Integration

Modular, easy to expand, supports multiple AC side parallel connections.



High Performance

All-in-one solution featuring liquid-cooling system, achieving up to 90% system efficiency.



High Safety

VenturePro features high safety and high integration, incorporating a selection of LFP cells with high thermal stability and a proactive fire prevention strategy utilizing an independent fire protection system.

Category	Item	Specification	
		IEC Standard	UL Standard
Regulatory Standards	PCS Cabinet	IP 65	
	Battery Pack	IP 67	
	PCS	IEC/EN 62477-1, EN IEC 61000-6-2, EN IEC 61000-6-4, EN50549-1	UL1741, CSA C22.2 No. 107.1-16, CLASS - C531109, CLASS - C531189, CSA C22.2 No. 107.1-16, IEEE 1547.1-2020, IEEE 1547-2018, IEEE 1547a- 2020
	Battery Cell	IEC62619	UL1973, UL9540A
	Battery Pack	IEC60730-1, UN38.3	UL9540A, UL1973, UL60730-1, UN38.3
	System	EN 62477-1 EN IEC 61000-6-2/4 UN38.3, UN3480	UL9540, UL9540A, FCC part 15B, UN38.3, UN3480
DC Parameters	Configuration	1P260S	
	Nominal Capacity	250 kWh	
	Nominal Voltage	832 Vdc	
	Voltage Range	728 ~ 936 Vdc	
	Cycle Life	≥8000 cycles	
	Round Trip Efficiency	90%	
AC Parameters	Rated Power	125 kW	
	Rated AC Voltage	400 Vac	480 Vac
	Rated Current	180 A	150 A
	Output Voltage Range	-15% ~ +10%	-10% ~ +5%
	Rated Frequency	50/60 Hz	60 Hz
	Allowable Frequency Deviation	±5 Hz	±3 Hz
	Charge And Discharge Conversion Time	< 20 ms	
	Current Distortion Rate	< 3% (rated working condition)	
	DC Component	< 0.5%	
	AC Voltage Harmonics	< 3% (linear load)	
	Max. AC Efficiency	90% (without aux. consumption)	
Basic Paramaters	Operating Ambient Temperature	-30°C to 55°C (-22°F to 122°F)	
	Operating Ambient Humidity	0 - 95%	
	Storage Temperature	-30°C to 55°C (-22°F to 122°F)	
	Application Altitude	≤2000 m	
	Noise Emission	≤75 dB (1 m)	
	Dimensions (W x D x H)	1350 x 1400 x 2250(2340)mm(53.15 x 55.12 x 88.58(92.13)in)	
	Weight	≤ 3500 kg	
	IP Rating	IP 54	
	Protocol	CAN / Modbus-TCP/RTU	
	Fire Fightinging	Aerosol	
	Cooling Method	Liquid-Cooling	
Warranty	Standard	5 years (included)	
	Extended Warranty	5 / 10 years	