

ENERGY STORAGE SYSTEM

FOR HOUSEHOLDS AND SMALL BUSINESSES



About the product

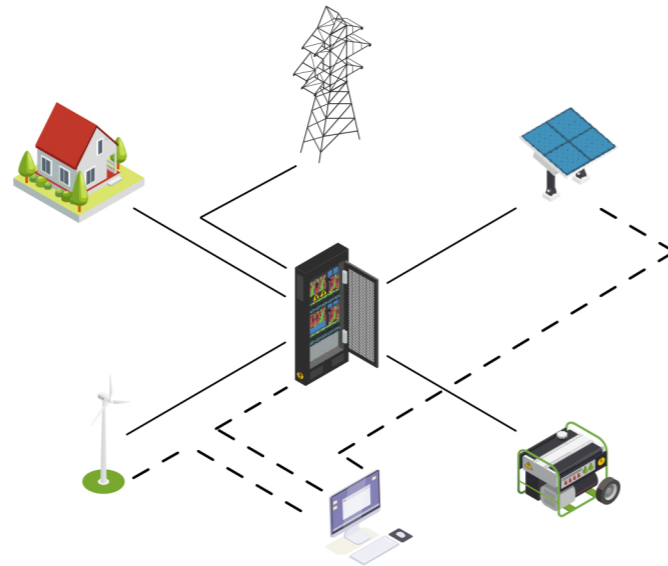
In response to market needs, we have built a compact and ready-to-connect energy storage solution - a product based on Victron Energy components and Pylontech batteries. The Victron Energy home energy storage is a modular solution offering incredibly vast possibilities. The energy storage allows for integration with a photovoltaic installation, a combustion generator, or a wind turbine.

Victron Energy

Since its establishment in 1975, Victron Energy, a Dutch company, has specialized in the design and manufacture of products for battery-based energy systems, earning trust for the reliability, innovation, and quality of their offerings. Their energy solutions, such as inverters, chargers and solar charge controllers, are industry-leading, ensuring performance and durability. Victron Energy stands out with excellent customer support and advanced technology that guarantees maximum energy efficiency and safety in use, making them a trustworthy choice.

Pylontech

Pylontech, a leader in LiFePO4 battery technology for over 10 years, deserves trust for its innovative energy storage solutions. Their products, known for high quality and longevity, are crucial for energy systems in both domestic and industrial applications. Pylontech stands out with its reliability, advanced technology, and efficient energy management, making them a credible and respected supplier in the energy industry.



Compact Design



Integration with Solar Systems



Full Backup Power



Real-time Monitoring



Plug&Play Ready for Grid Connection



Dynamic Charge and Discharge Schedules



Energy storage system RACK

Battery inverters

MultiPlus-II 230V	3x48/3000/35-32	3x48/5000/70-50	3x48/8000/110-100
PowerControl & PowerAssist		Yes	
Transfer switch	3x32A	3x50A	3x100A
Maximum AC input current	3x32A	3x50A	3x100A

Inverters

DC Input voltage range	38-66 V		
Output	400VAC 50Hz +/- 0,1%		
Cont. output power at 25°C	3x3000VA	3x5000VA	3x8000VA
Cont. output power at 25°C	3x2400W	3x4000W	3x6400W
Cont. output power at 40°C	3x2200W	3x3700W	3x5500W
Cont. output power at 65°C	3x1700W	3x3000W	3x4000W
Peak power	3x5500W	3x9000W	3x15000W
Max. Asymmetry of Phase Load	3000VA	5000VA	8000VA
Maximum efficiency	95%	95%	95%
Zero load power	33W	54W	87W
Zero load power in AES mode	21W	36W	57W
Zero load power in Search mode	6W	6W	9W

Chargers

AC Input	Input voltage range: 187-265 VAC Input frequency: 45-64 Hz		
Max. battery charge current	105A	210A	330A
Battery temperature sensor	Yes		

General

Auxiliary output	3x32A	3x32A	3x50A
Max. AC-coupled solar system on Output	9 kWp	15 kWp	24 kWp
Programmable relay	8 pcs		
Controller	Cerbo GX		
Touch screen	GX Touch 7"		
Energy meter	ET340		
Protection ⁽¹⁾	a-f		
Remote on-off	Yes		
Operating temperature range	-40 to +65°C (fan assisted cooling)		
Max. humidity	95%		
Safety, Emission, Immunity	EN-IEC 60335-1, EN-IEC 60335-2-29, EN-IEC 62109-1, EN-IEC 62109-2 EN 55014-1, EN 55014-2, EN-IEC 61000-3-2, EN-IEC 61000-3-3 IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3		
Warranty	5 years		

Pylontech US5000 Batteries

Number of Batteries ⁽²⁾	2 - 7	3 - 7	4 - 6
Nominal Capacity	9,6 - 33,6 kWh	14,4 - 33,6 kWh	19,2 - 28,8 kWh
Usable Capacity	9,12 - 31,92 kWh	13,68 - 31,92 kWh	18,24 - 27,36 kWh
Nominal Voltage	48V	48V	48V
Recommended Charge/Discharge Current	160-560A	240 - 560A	320 - 480
Max. Charge/Discharge Current	400 - 1400A	600 - 1400A	800 - 1200A
Design Life	15+ years (25°C)		
Cycle Life	> 8000 (25°C)		
Warranty	10 years		
Certification	UL1973/UL9540A, IEC62619/IEC63056 /ICE61000-6-2/3 /UN38.3		

Rack cabinet enclosure

Rack type	Standing Rack Cabinet
Size	19"
Rack units	42U
Doors	Perforated
Number of fans	4 pcs
Colour	Black RAL9004
IP Protection Class	IP20
Dimensions (WxDxH)	600x800x2127.5
Wheels	Yes

1) Protection key:
a) output short circuit
b) overload
c) battery voltage too high
d) battery voltage too low
e) temperature too high
f) input voltage ripple too high
2) Maximum number of batteries is 480 pcs
Installation possible with the use of multiple rack cabinets

