



Reenergy Power is a leading manufacturer of high-quality lithium-ion and VRLA batteries, catering to the growing demand for efficient and sustainable energy storage solutions. Our batteries are designed for a wide range of applications, including renewable energy systems, and industrial equipment, for residential and commercial applications. We are committed to innovation, reliability, and environmental sustainability. Reenergy Power aims to provide durable, high-performance batteries that empower a greener and more connected world.

■ RPHV-5C

RPHV-5C with 102.4kWh energy storage capacity, features high quality EVE Grade A cells and interactive interface through its touch screen. It has an independent intelligent temperature control system to ensure optimal system performance and safety.



Product Details



Grade A LifePo4 Cell



Safety & Reliability

- LiFePO4 battery technology for enhanced safety and extended lifespan
- 1+1 redundant design for improved reliability
- Equipped with air conditioning, cooling fans, and fire extinguishing system for optimal safety and temperature control in the battery module.



Flexibility

- Standard modular design with 5.12kwh per battery module.
- Flexible design from 4-14 battery modules in series.



Cost Effective & High Efficiency

- 100% Depth of Discharge (DOD) for maximum energy usage
- Enhanced return on investment through optimized performance.



Simple & Friendly

- Pre-installed before delivery for easy and quick installation.
- Backup time ranging from 2 to 5 hours



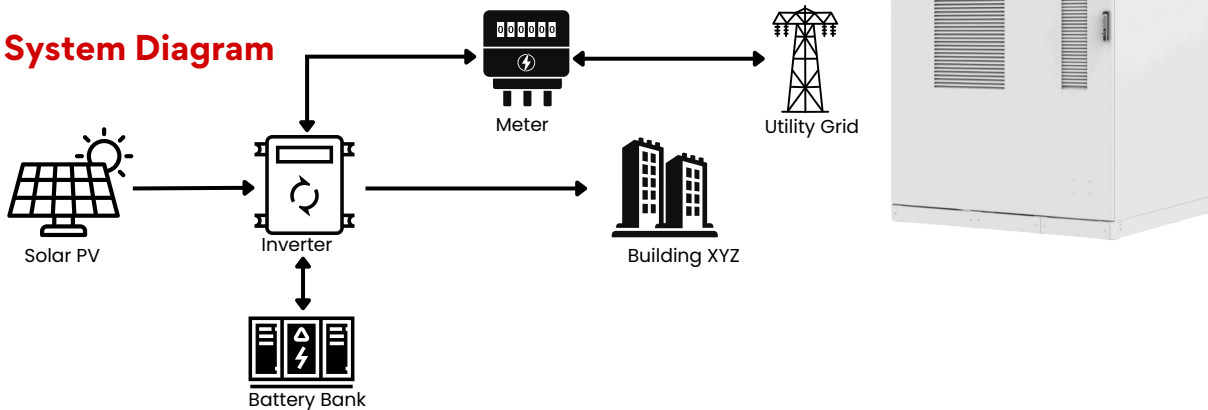
Convenience

- Standard 19-inch rack design for easy installation & maintenance.
- Supporting USB software upgrade

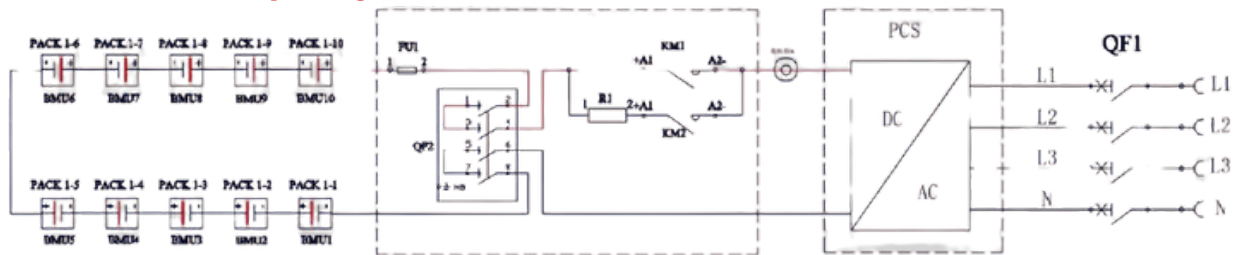
- Three-layer architecture with integrated BMU, RBMS, and SBMS for enhanced multi-level protection.
- Touchscreen interface for selecting different communication protocols.
- High modularity degree, simple structure, easy installation and maintenance.
- Integrated self-developed BMS for real-time monitoring and management.
- Supports up to 10 energy systems in parallel, allowing maximum scalability of 1MW.
- PACK level fire-fighting System(optional).
- Comprehensive battery protection strategy with fault detection and isolation measures to ensure energy storage system safety.
- Utilizes mature, safe, economical, environmentally friendly lithium iron phosphate battery modules with an ultra-long lifespan and high reliability
- Independent intelligent temperature control system minimizes temperature variations between modules, prolonging battery life.

Battery Parameters	
Items	Description
Cell Chemistry	LiFePO4
Module Energy	5.12kWh
Module Nominal Voltage	51.2V
Module Capacity	100Ah
Battery Module Qty	10*2
System Energy	102.4kWh
System Nominal Voltage	512V
Operating Voltage Range	456V~576V
Cycle Life	8000 50% DOD, 6000 times 80% DOD, 4000 100% DOD (0.2, 25°C)
Charge/Discharge Efficiency	Max 0.5C
Dimensions W*D*H	1100mm/1080mm/2380mm
Weight	1430kg
Operating Temperature Range	-25°C~+50°C
Cooling Mode	Air Conditioner

System Diagram



Electrical Primary Diagram



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