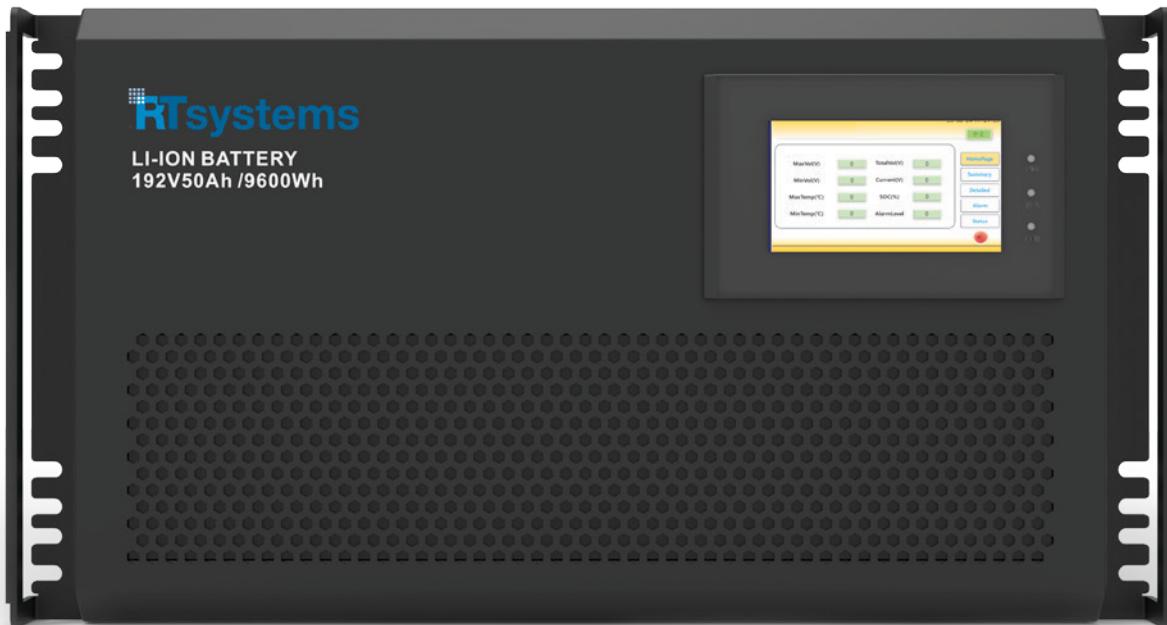




High-voltage Lithium-ion (LiFePO4) Energy Storage System



The RT192V50Ah is a high-voltage lithium-ion (LiFePO4) energy storage system designed for applications such as UPS and solar power. It is part of a scalable, rack-mounted solution.

Applications

This high-voltage battery system is suitable for high-power applications requiring reliable backup power or energy storage:

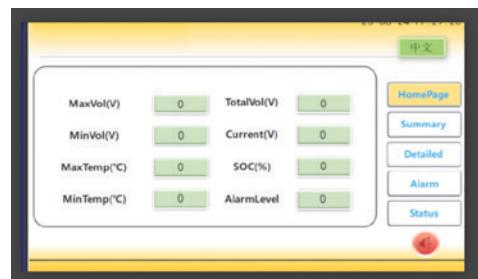
- UPS systems:** Suitable for 5KVA to 10 KVA Uninterruptible Power Supply systems.
- Renewable Energy Storage:** Ideal for solar and wind power systems.
- Industrial/Commercial Use:** Used in various industrial and commercial settings where stable and high-capacity power is needed.

Key Features and Specifications

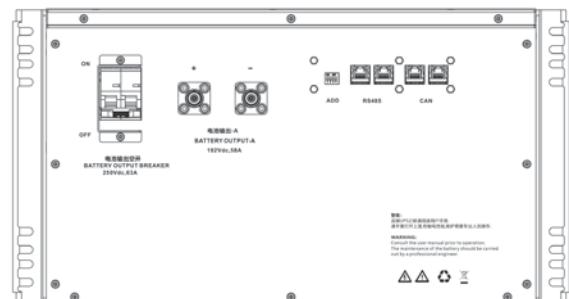
- Type:** Lithium Iron Phosphate (LiFePO4) prismatic cells, known for safety and a long cycle life of over 3000 cycles.
- Nominal Voltage:** 192V.
- Nominal Capacity:** 100Ah (user specified).
- Energy:** Approximately 96 kWh
- Design:** Standard 19-inch rack design for easy installation and scalability.
- Battery Management System (BMS):** Integrated for independent protection against over-voltage, low-voltage, over-current, and temperature extremes.
- Communication:** Features RS485 and CAN communication ports, allowing compatibility with major inverter manufacturers.
- Display:** Includes a 4.3" LCD display for detailed operational status (SOC, RUN, ALM).
- Maintenance:** Maintenance-free operation.



Standard 19-inch rack design for easy installation and scalability.



4.3" LCD display for detailed operational status



Features RS485 and CAN communication ports

SAFETY

- Long life prismatic LiFePO4 cells, over 3000 cycle life with enhanced safety.
- Multi-level safety protection design. Major parts have UL certification.
- Cell certification: UL1642, IEC62619, GB/T 31484/31485/31486, IS16046(Part 2) / IEC62133-2:2017, JET.
- Battery certification: UN38.3, MSDS.

SCALABILITY

- Parallel connection for more energy and prolonged backup time.
- Standard 19" rack design, flexible with easy installation.

DESIGN

- Suitable for 5KVA to 10 KVA UPS.
- High energy density and fast charge performance.
- Run and Alarm indicator lights and PC software is provided for detailed operation information.
- 20~+55°C wide temperature range.
- Maintenance free.

BATTERY MANAGEMENT SYSTEM

- Independent protection for charge and discharge.
- Low voltage automatic cut-off function to avoid over-discharge of batteries.
- RS485, CAN communication port.
- Over voltage protection, Low voltage protection, Over current protection, Low temperature protection, High temperature, Short circuit protection.



RT192V50Ah High-voltage Lithium-ion (LiFePO4) Energy Storage System



Model	RT192V50Ah
Part Number	1.8.0.192.050.00.000
Cell Type and connection	Prismatic LiFePO4 Cell 3.2V50Ah, 1P60S
Nominal voltage [V]	192
Nominal capacity [Ah]	50
Total energy [KWh]	9.6
Max. charging current [A]	50
Charging voltage [V]	207~216
Max. continuous discharging current [A]	100
Recommended discharging current [A]	50
Peak discharging current [A]	120A-30s
End of discharge voltage [V]	168
Product dimension [W*D*H]	430*600*259
Product weight [Kg]	90
Protection class	IP20
Operating humidity	0~95 %RH (No condensing)
Operating temperature range	Charge: 0~+45 °C Discharge: -20~+45 °C
Communication interface	RS485, CAN
Cycle Life	>3000 (25 °C) / >2500 (45 °C)
Designed life	10 Years
Protection	Over voltage, Low voltage, Over current, Over Temperature, Low Temperature, Short circuit
Certification	UN38. 3
Parallels Support	Yes, Max. 8 Sets
Seires Support	Yes, ±192V

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