

RV-12-150

Lithium Iron Phosphate Battery / LiFePO₄



Energy Storage



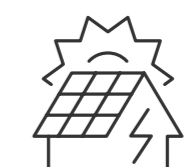
Lithium-Ion Battery



Intelligent Software



Home Energy Storage



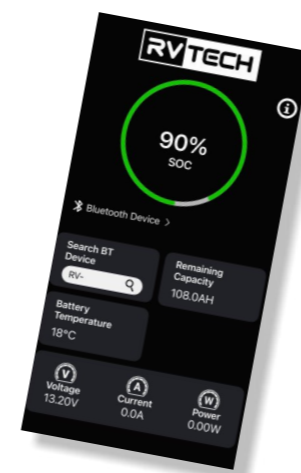
Photovoltaic System



Grid Energy Storage

FEATURES

- Built-in advanced BMS & active cell balancer.
- Automatic recovery from overcharge & overdischarge.
- Big capacity: 12.8V 150Ah 1920Wh.
- More than 3000 deep cycles. Nearly 4 times of lead acid batteries.
- 3 stage current, timing & temperature protection.
- Good performance in high or low temperatures.



W 175mm

H 220mm

L 335mm

BASIC INFO

| | |
|-----------------------|---|
| Model | RV-12-150 |
| Voltage | 12.8VDC |
| Capacity | 150Ah (1920Wh) |
| Dimensions | 335*220*175mm |
| Weight | 14.5kg |
| Chemical | Lithium Iron LiFePO ₄ |
| Cell Type | Prismatic |
| Box Material | ABS121H |
| Terminal Type | M8 Brass |
| Waterproof Level | IP67 |
| Operating Temperature | -20°C ~ 60°C |
| Certifications | CE, MSDS, UN38.3, UN3480, IEC62619, EMC, RCM, ISO9001, RoHS |

ELECTRICAL SPEC

| | |
|------------------|-----------------|
| Nominal Voltage | 12.8VDC |
| Nominal Capacity | 150Ah |
| Capacity @ 30A | 300min |
| Resistance | ≤10mΩ @ 50% SoC |

| | |
|--------------------------|---|
| Active Cell Balancing | 5Ah Nominal (8Ah Peak) Charge & Discharge |
| BMS Pulse Power | 100A 1920W |
| BMS Reconnect | Automatic (18s) |
| Low Voltage Cut-Off | 10.5V |
| High Voltage Protection | 14.8V |
| Short Circuit Protection | 250A (Delay: 5ns Recovery: 17s) |
| Max Series Voltage | 51.2V |
| Max Continuous Current | 120A |
| Max 30s Pulse | 120A |
| Cycle life (100%DoD) | ≥ 2000 Cycles |
| Cycle life (80%DoD) | ≥ 3500 Cycles |
| Cycle life (50%DoD) | ≥ 6000 Cycles |
| Cycle life (30%DoD) | ≥ 8000 Cycles |
| Storage Conditions | -40°C ~ 85°C 5% ~ 75% RH |

CHARGE SPEC

| | |
|---|----------------------------------|
| Recommended Charge Current | 30A |
| Max Charge Current | 60A (Delay: 5s) |
| Max Charge Voltage | 14.6V |
| Min Charge Current | 1A |
| Single Cell Overcharge Protection Voltage | 3.65V (Delay: 1s Release: 3.55V) |

DISCHARGE SPEC

| | |
|--|----------------------------------|
| Standard Discharge Current | 100A (0.5C) |
| First Discharge Over Current | 120A (Delay: 30s) |
| Second Discharge Over Current | 150A (Delay: 12s) |
| Single Cell Overdischarge Protection Voltage | 2.50V (Delay: 1s Release: 2.70V) |

TEMPERATURE SPEC

| | |
|---------------------------------------|------------------------|
| Working Temperature | -20°C ~ 60°C |
| Charge High Temperature Protection | 70°C (Release: 65°C) |
| Discharge High Temperature Protection | 70°C (Release: 65°C) |
| Charge Low Temperature Protection | 0°C (Release: 5°C) |
| Discharge Low Temperature Protection | -20°C (Release: -15°C) |
| MOSFET Heatsink Temperature | 65°C |

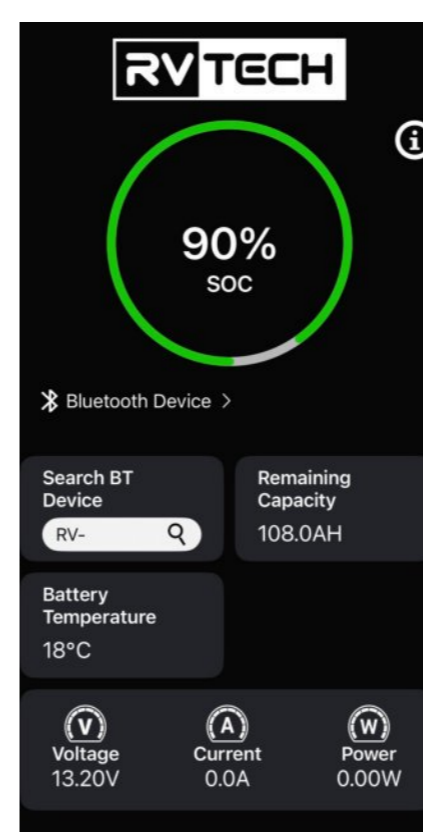
BMS SPEC

| Categories | Items | Result |
|--------------------------|---------------------------------------|------------------------------|
| Charge | Max Charge Current | Continuous 60A (Protect 62A) |
| | Overcharge Protection Voltage | 3.7V |
| | Overcharge Protection Delay | 6s |
| | Overcharge Release Voltage | 3.6V |
| | Overcharge Recovery Time | 18s |
| Discharge | Max Continuous Discharge Current | 120A |
| | Overdischarge Detection Delay (150A) | 12s |
| | Overdischarge Detection Delay (190A) | 8s |
| | Overdischarge Recovery Time | 10s |
| | Low Voltage Protection (Discharge 1A) | 2.16V |
| Short Circuit Protection | Short Circuit Detection Delay | 5ns |
| | Short Circuit Recovery Time | 17s |
| Temperature Control | MOSFET Temperature Control | 70°C |
| | MOSFET Temperature Control Release | 65°C |
| | MOSFET Heatsink Temperature | 65°C (Discharge 100A 35min) |

NOTE

- This battery CAN'T be used to start motor vehicles.
- Please pay attention to clean the positive and negative electrodes regularly to ensure good contact.
- For a longer life span of the battery, please make a full charge every 3 months.
- During use, pay attention to moisture-proof, waterproof and keep away from ignition sources.
- During use, please follow the parameters and conditions of use, otherwise the battery may be damaged.
- The parameters, functions and appearance in this specification are for reference only.
- Please refer to the actual product.

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