



LiFePO4 BATTERY MANUAL for RK 12- 100 , 12.8V 100AH

WARNING AND SAFETY INSTRUCTIONS - 12V 100Ah

This manual contains important safety instructions for the HWE lithium battery, **DO NOT** operate the battery or modify the installation unless you have read and understood it. We recommend the battery should install by a suitably qualified person.

WARNING

1. **RISK** of fire, explosion, and burns:
2. **DANGEROUS** for Working in the vicinity of a lithium battery.
3. **DO NOT** short the battery terminals.
4. **DO NOT** expose the battery to temperatures beyond the published limits.
5. **DO NOT** attempt to disassemble the battery.
6. **DO NOT** crush or puncture the battery.
7. **DO NOT** put the battery in liquid.
8. **DO NOT** operate the battery beyond the published powers.

CAUTION

1. The battery should not use by persons (including children) with reduced physical, sensory, or lack of relevant knowledge and experience unless they are supervised or instructed on the appliance by a person responsible for their safety. You have to make sure that Children **DO NOT** play with the batteries.
2. **DO NOT** alter or disassemble the battery under any circumstances. Incorrect handling or reassembly may void the battery's warranty, also the risk of electric shock and fire.
3. **NEVER** smoke or allow a spark or flame in the vicinity of the battery, which may cause the battery to explode.

NOTICE

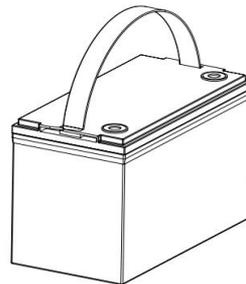
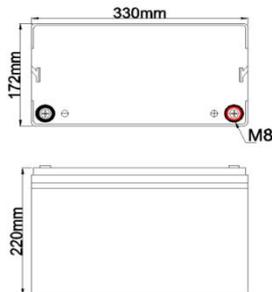
1. **DO NOT** use the battery for cranking/starting applications.
2. **DO NOT** dispose of in fire.
3. **DO NOT** install battery from heat sources, high voltage, and prolonged exposure to the sun.
4. **DO NOT** connect the positive and negative terminals directly.
5. **DO NOT** allow the battery to sit in a discharged state ≤ 10.0 V.
6. **DO NOT** mix our batteries with other chemistry batteries because they will not be compatible.

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SPECIFICATION

Part Number	RK12-100
Nominal Capacity (0.2C, 25°C to 10.0 V)	100Ah / 1280.0 Wh
Nominal Voltage	12.8 V
Recommended Charge Current	≤ 50.0 A
Maximum Charge Current	100.0 A
Recommended Charge Voltage	14.6 V ± 0.2 V
Recommended Continuous Discharge rate	50.0 A
Maximum Discharge rate	100.0 A
Discharge Cut-Off Voltage	10.0 V
Life Cycles 80% DOD	4000
Dimension (L × W × H)	330 × 172 × 220 mm
Weight	11.4kg
Minimal Capacity (0.2C, 25°C to 10.0 V)	95%
Charge Temperature Range	0 ~ 45 °C
Discharge Temperature Range	-20 ~ 70 °C
Storage Temperature Range	-20 ~ 45 °C
Terminal Type	M8
Case Material	ABS+PC

DUMENSIONS



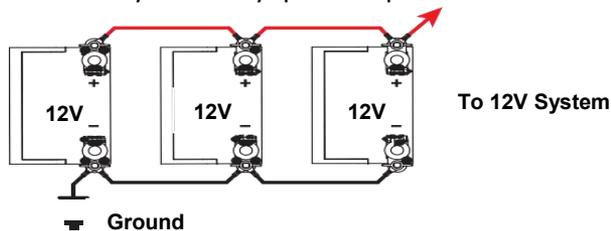
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BATTERY GROUP

When assembling the batteries in Series or Parallel, make sure the voltage difference of each battery is under 0.3V, connecting the NEG- well first, then wire the POS+ following.

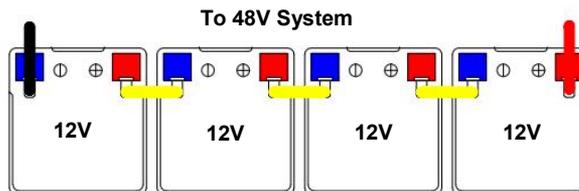
Parallel Connection

When connecting our lithium batteries in parallel, we recommend that the earth connection make the opposite end of the battery bank to the positive. When the batteries are wiring this way, the effects of resistance in the POS+ and NEG- wires cancel each other, and both batteries receive an equal charge (support ≤ 4 pcs batteries). Batteries install must be installed by a suitably qualified person.



Series Connection

When you want to make a 48v battery group, you can connect the first battery negative poles to the second battery positive poles refer to the figure (support ≤ 4 pcs batteries).



WARRANTY

1. If our products have quality problems and cannot work Within 30 days, we can provide refund services.
2. If our product does not work well in 30 days to 1 year, consumers assist us in completing all battery tests, and both parties confirm that the product does have quality problems, we will exchange a new product to consumers.
3. Please read the product manual carefully before installation and use. If the consumers use the product was not according to the product manual requirements, and make serious quality issues. We will decide whether to provide a warranty based on the damage to the product.