HCG-27 Series Data sheet

12V 120Ah

12V 135Ah] 24V 60Ah

48V 32Ah





Model Included:

HCG27-12120 12V 120Ah LiFePO4 Battery

HCG27-12135 12V 135Ah LiFePO4 Battery

HCG27-2460 24V 60Ah LiFePO4 Battery

HCG27-3640 36V 40Ah LiFePO4 Battery

HCG27-4832 48V 32Ah LiFePO4 Battery

| Haicen Advanced Lithium Batteries | | Model | | | | |
|-----------------------------------|----------------------|--|-------------|-------------|-------------|-------------|
| | | HCG27-12120 | HCG27-12135 | HCG27-2460 | HCG27-3640 | HCG27-4832 |
| Electrical Specifications | Nominal Voltage | 12.8V | 12.8V | 24V | 36V | 48V |
| | Nominal Capacity | 120Ah | 135Ah | 60Ah | 40Ah | 32Ah |
| | Parallel Connection | Max. 6units | Max. 6units | Max. 6units | Max. 6units | Max. 6units |
| | Serial Connection | Max. 6units | Max. 6units | Max. 2units | No | No |
| | BMS | 4S150A | 4S150A | 8S60A | 12S50A | 16S45A |
| | Circuit Protection | Over charge, Over discharge, Over current, Over temp, Short, Balance | | | | |
| | Cycle Life | 3000times Cycles @100%DOD and 6000times @80% DOD | | | | |
| | Self Discharge | Less than 3% per month | | | | |
| | Charge Efficiency | 100% @0.2C | | | | |
| | Discharge Efficiency | 98-100% @1C | | | | |
| Charge Specifications | Charge Voltage | 14.4±0.2V | 14.4±0.2V | 28.8±0.4V | 43.2±0.6V | 57.6±0.8V |
| | Standard Current | 20A | 27A | 12A | 8A | 6A |
| | Fast Current | 60A | 67A | 30A | 20A | 16A |
| Discharge Specifications | Standard Current | 24A | 27A | 12A | 8A | 6A |
| | Max. Con. Current | 120A | 135A | 60A | 40A | 32A |
| | Peak Current | 600A(300ms) | 600A(300ms) | 200A(300ms) | 200A(300ms) | 180A(300ms) |
| | Cut-off Voltage | 10V | 10V | 20V | 30V | 40V |
| Mechanical Specifications | Dimensions (mm) | 305×169×210mm (Group 27) | | | | |
| | Approx Weight(KG) | 13.5 | 14 | 13.5 | 13.5 | 13 |
| | Terminal Type | M8 | | | | |
| | Case Color/material | Black Plastic case (ABS) | | | | |
| | IP Rating | IP65 | | | | |
| | Cell Type | Cylindrical LiFePO4 cell | | | | |
| | Cell holder | Yes | | | | |
| Temperature Specifications | Charge Temp | 0°C to 55°C (32°F to 131°F) | | | | |
| | Discharge Temp | -20°C to 60°C (-4°F to 140°F) | | | | |
| | Storage Temp | -5°C to 45°C (23°F to 113°F) | | | | |



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Key Points for Quality control:

Cell match:

More strict cell matching standard, the difference of Internal resistance is $1m\Omega$ and voltage is 5mV.

Automatic cells welding:

Cells are assembled by Automatic welding equipments to ensure the quality reliability and consistency.

100% Cycle test:

All battery packs are 100% cycle tested (Fully Discharged→Fully Charged→Fully Discharged→60% Charged) before package and all test reports are stored.

Unique tracking number:

All battery packs are lasered an unique number on the case side for quality tracking.

Certifications:

- UL1642 (Cell)
- CE (Pack)
- IEC62133 (Cell)
- UN38.3 (Cell / Pack)
- IEC62619 (Cell)
- ROHS (Cell)















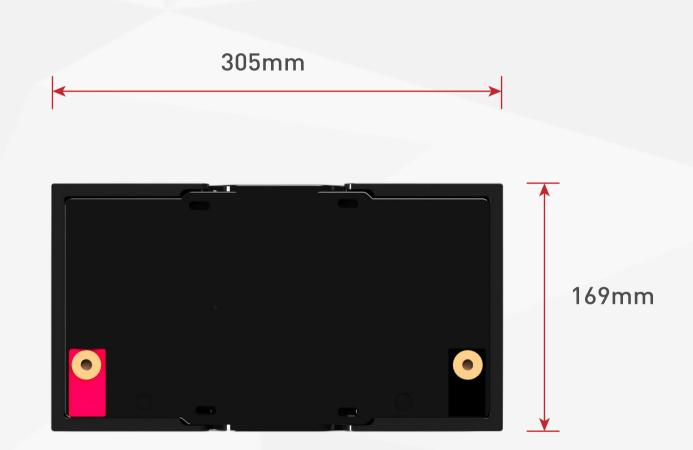




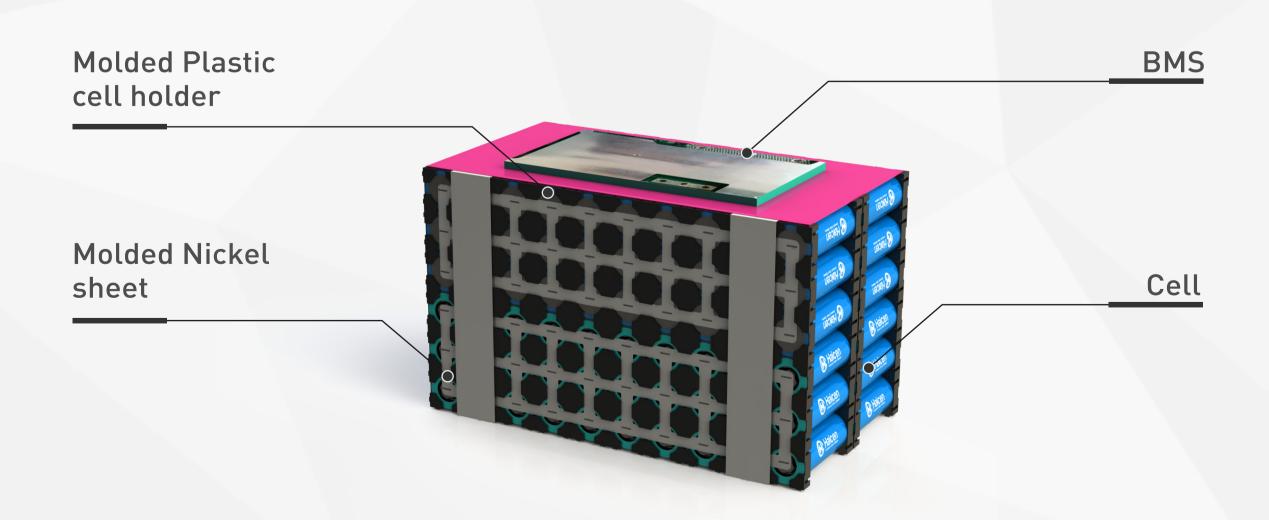


Dimensions:





Internal Structure:





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Key Benefits:

Higher qualified cylindrical cell:

UL1642, IEC62619, IEC62133 listed with Cycle life more than 3000times and excellent consistency.

Stronger BMS:

Can support the batteries in parallel and series connection

More stable and firm internal structure:

Cell holders can well protect and separate the cells to avoid any circuit short risk caused by vibration or impact or over current, and improve the heat dissipation.

Smaller size and less weight:

The size of our battery is just 3/4 size of the standard 12V 120Ah battery from other suppliers.

Market Applications:







Marine



Golf cart



Light EV



Energy storage



Cleaning





Package:

20' Container=10Pallets=650Cartons=650Units:

40' Container=20Pallets=1300Cartons=1300Units;



Customized items:

- Case color: Customized case color is acceptable based on quantity more than 300pcs per batch.
- Label design: We can help you to design customized label on the battery.
- Carton design: Customized carton is acceptable based on quantity more than 200pcs per batch.
- Certificates: 50% discount on certificates cost for first bulk order and 100% reback for future orders.
- NDA agreement: NDA agreement is allowed and necessary to protect your benifits.

