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GROUP 24

12V 120AH



DATA SHEET

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G-24-12V120-BT



12V 120Ah LiFePO4 Battery with Bluetooth

G24--12V-120-BT

ELECTRICAL SPECIFICATIONS

| | |
|----------------------|--|
| Nominal Voltage | 12.8V |
| Nominal Capacity | 120Ah |
| Parallel Connection | Max. 4units |
| Serial Connection | Max. 4units |
| BMS | 4S150A |
| Bluetooth | Android/IOS |
| Heat | No |
| Circuit Protection | Over charge, Over discharge, Over current, Over temp, Short, Balance, Low temp |
| 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 |
| Standard Current | 24A |
| Fast Current | 60A |

DISCHARGE SPECIFICATIONS

| | |
|-------------------|-------------|
| Standard Current | 24A |
| Max. Con. Current | 120A |
| Peak Current | 800A(300ms) |
| Cut-off Voltage | 10V |

MECHANICAL SPECIFICATIONS

| | |
|---------------------|--------------------------|
| Dimensions (mm) | 260×170×208mm (Group 24) |
| Approx Weight(KG) | 11.5 |
| 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) |

KEY POINTS FOR QUALITY CONTROL:

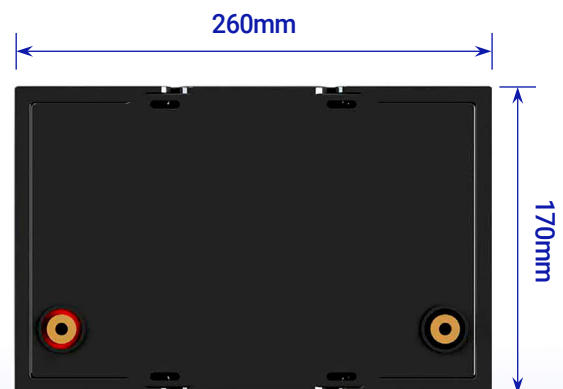
- Cell match:**
 More strict cell matching standard, the difference of Internal resistance is 1mΩ and voltage is 5mV.
- Automatic cells welding:**
 Cells are assembled by Automatic welding equipments to ensure the quality reliability and consistency.
- 100% Cycle test:**
 All battery packs are 100% cycle 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:

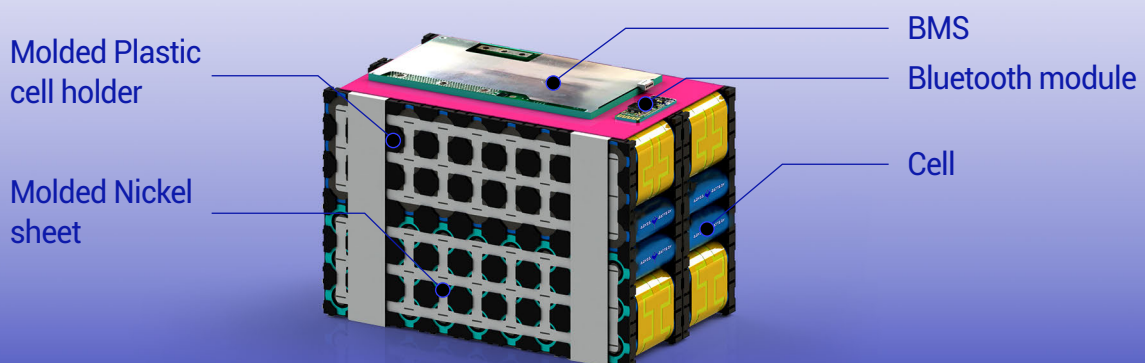
| | |
|-----------------|---------------------|
| UL 1642 (Cell) | CE (Pack) |
| IEC62133 (Cell) | UN38.3 (Cell/ Pack) |
| IEC62619 (Cell) | ROHS (Cell) |



DIMENSIONS:

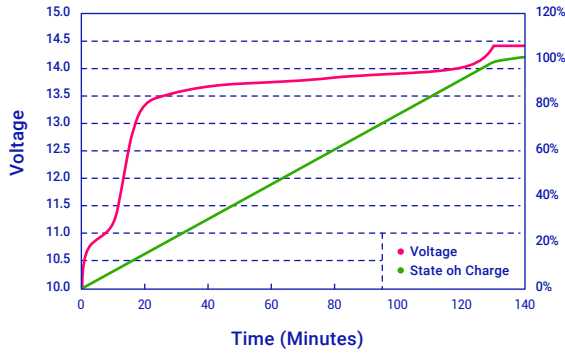


INTERNAL STRUCTURE:

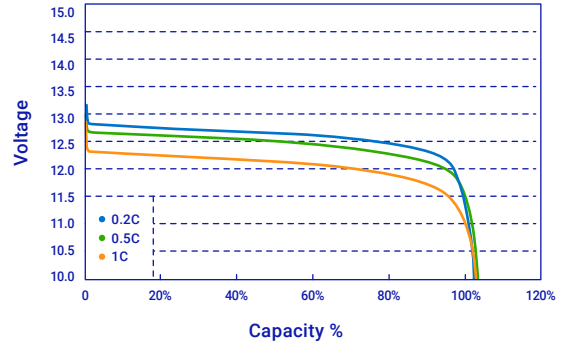


CHARACTERISTICS CURVE:

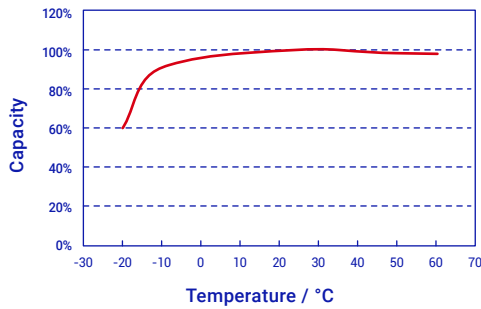
CHARGING CHARACTERISTICS (0.5C @25°C)



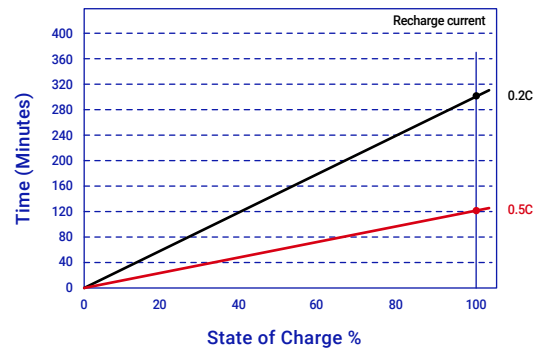
DISCHARGING CHARACTERISTICS (0.2C, 0.5C, 1C @25°C)



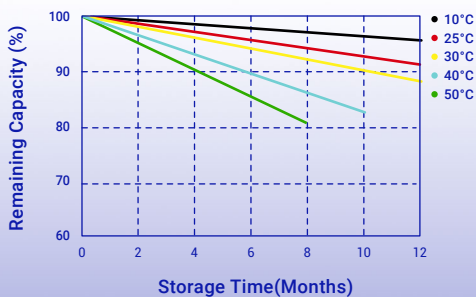
DIFFERENT TEMPERATURE CAPACITY CURVE



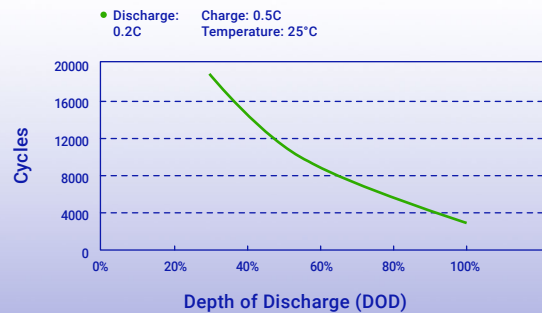
TYPICAL CHARGE TIME CURVE



DIFFERENT TEMPERATURE SELF DISCHARGE CURVE



DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE



KEY BENEFITS:

- Higher qualified cylindrical cell:**
 UL1642, IEC62619, IEC62133 listed with Cycle life more than 3000times and excellent consistency.
- Bluetooth:**
 Can monitor the battery status(charge, discharge, current, temperature, cycle life and so on) and change the data for different applications.
- Heat:**
 Uniform internal heating is an important feature of our cold-weather performance batteries, as many external heating blanket options currently available cannot sense the internal temperature of the cells and may not be completely effective at heating the battery throughout. The system features proprietary technology that draws power from the charger itself, requiring no additional components. The entire process of heating and charging is completely seamless. Simply plug the battery into the regular lithium charger and the internal heating and monitoring system takes care of the rest.
- 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 manufacturerers.

MARKET APPLICATIONS:


RV

MARINE

GOLF CART

CLEANING

LIGHT EV

ENERGY STORAGE

ROBOTICS

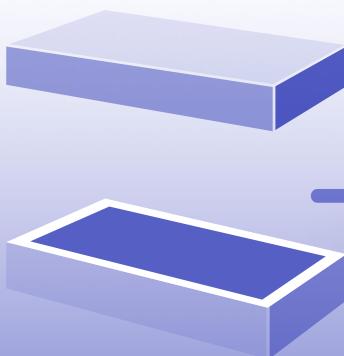
LIGHTING

PACKAGE:

20' CONTAINER=10PALLETS=750CARTONS=750UNITS
 40' CONTAINER=20PALLETS=1500CARTONS=1500UNITS

1 CARTON=1 UNIT

1 PALLET= 75 CARTONS



INTERNAL PACKAGE
FORMING PEARL FOAM



WEIGHT: 13KG/CARTON
SIZE(LXWXH): 320X230X282MM



WEIGHT: 985KG/PALLET
SIZE(LXWXH)=1.2X1X1.6M * 2CBM



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