

# 51.2V 120Ah LITHIUM BATTERY



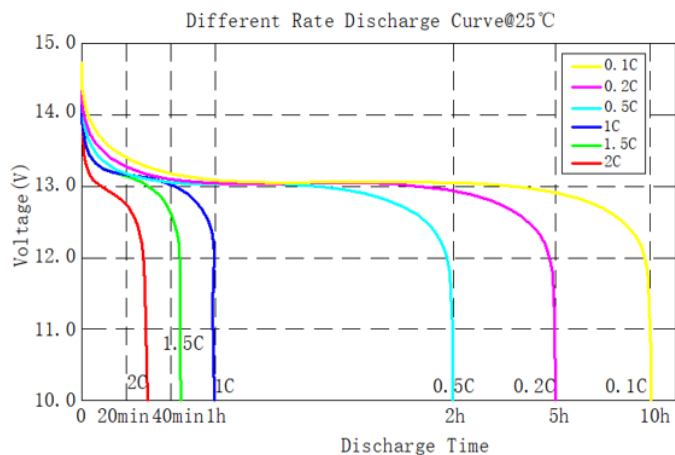
## ► Features

- A grade brand new prismatic LiFePO4 cells
- > 4000 cycles @80% DOD(25°C, 0.5C )
- Over charge, over discharge, over temperature, low temperature, over current and short circuit protection
- Easy installation and maintenance free
- Cell balance function
- Metal Case, excellent heat dissipation, more safety
- Certificate: UN38.3 MSDS IEC62619
- Max 8 battery packs can be connected in parallel

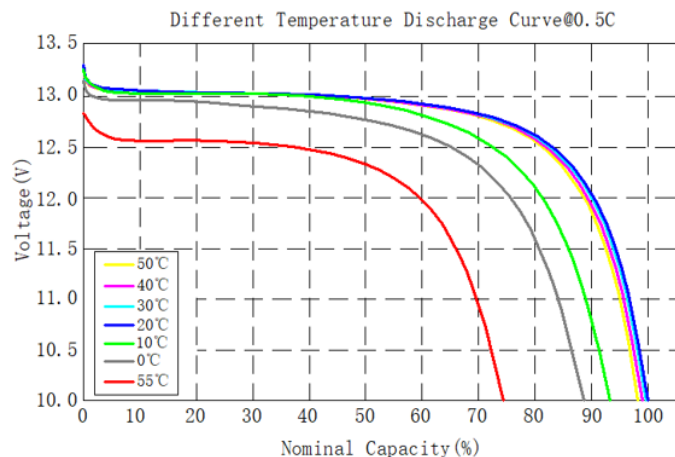
## ► Electrical Characteristics

| Model                      |                                   | LiM51120                                   |
|----------------------------|-----------------------------------|--------------------------------------------|
| Electrical<br>Parameter    | Battery Type                      | LiFePO4                                    |
|                            | Nominal Voltage (V)               | 51.2                                       |
|                            | Nominal Capacity (AH)             | 120                                        |
|                            | Energy (WH)                       | 6144                                       |
|                            | Pack Mode                         | 16S1P                                      |
|                            | Charge Cut-off Voltage (V)        | 57.6                                       |
|                            | Discharge Cut-off Voltage (V)     | 41.6                                       |
|                            | Max.Charge Current (A)            | 100                                        |
|                            | Max.Discharge Current (A)         | 100                                        |
|                            | Recommend Discharge Current (A)   | 50                                         |
|                            | Recommend Discharge Depth (%)     | 80                                         |
|                            | Cycle Life                        | > 4000 cycles (25°C, 0.5C ) 80% DOD        |
|                            | Function                          | --                                         |
|                            | Communication                     | --                                         |
| Environmental<br>Parameter | Charge&Discharge Temperature (°C) | Charge: 0°C~+50°C / Discharge: -20°C~+55°C |
|                            | Optimal Storage Temperature (°C)  | 5°C ~ +35°C                                |
|                            | Relative Humidity                 | 40%~80%                                    |
|                            | Ingress Protection                | IP65                                       |
| Mechanical<br>Parameter    | Terminal                          | M6                                         |
|                            | Dimensions (L*W*H) (mm)           | 575*245*196                                |
|                            | Weight (Kg)                       | 45.6±0.5                                   |
| Certificate                |                                   | UN38.3 MSDS IEC62619                       |

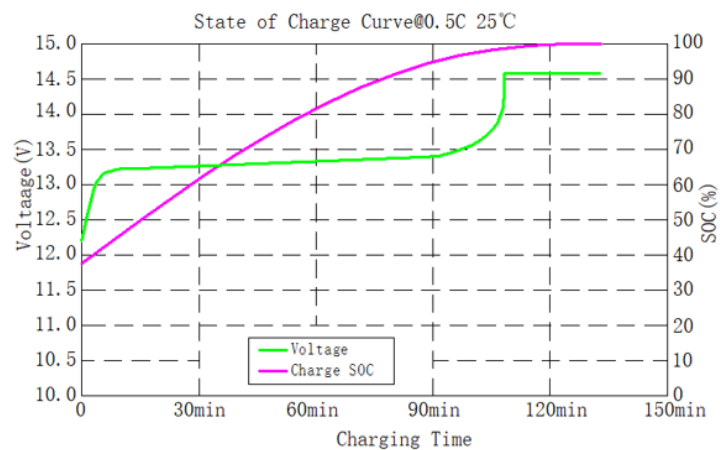
Different Rate Discharge Curve@25°C



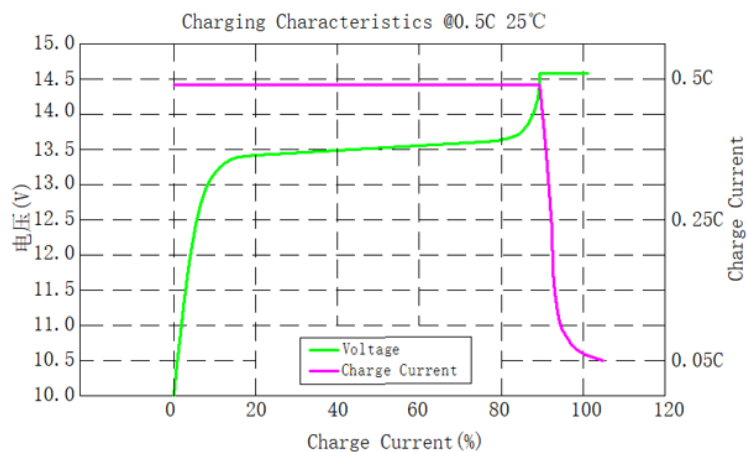
Different Temperature Discharge Curve@0.5C



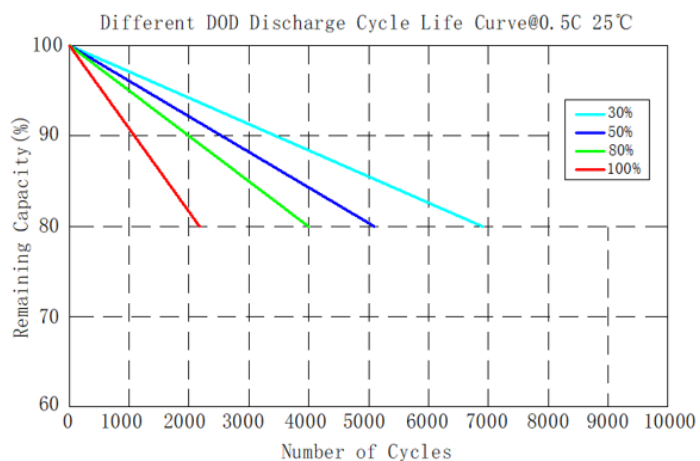
State of Charge Curve@0.5C 25°C



Charging Characteristics@0.5C 25°C



Different DOD Discharge Cycle Life Curve@0.5C 25°C



Different Temperature Self Discharge Curve

