

12V 200Ah

12V 240Ah

24V 100Ah

48V 50Ah



Model Included:

- **NEBG49-12200** 12V 200Ah LiFePO4 Battery
- **NEBG49-12240** 12V 240Ah LiFePO4 Battery
- **NEBG49-24100** 24V 100Ah LiFePO4 Battery
- **NEBG49-3660** 36V 60Ah LiFePO4 Battery
- **NEBG49-4850** 48V 50Ah LiFePO4 Battery

| neb energy® | | Model | | | | |
|-----------------------------------|----------------------|--|--------------|-----------------|-------------|-------------|
| | | NEBG49-12200 | NEBG49-12240 | NEBG49-24100 | NEBG49-3660 | NEBG49-4850 |
| Electrical Specifications | Nominal Voltage | 12.8V | 12.8V | 24V | 36V | 48V |
| | Nominal Capacity | 200Ah | 240Ah | 100Ah | 60Ah | 50Ah |
| | Parallel Connection | Max. 6units | Max. 6units | Max. 6units | Max. 6units | Max. 6units |
| | Serial Connection | Max. 4units | Max. 4units | Max. 2units | No | No |
| | BMS | 4S150A | 4S200A | 8S100A | 12S60A | 16S50A |
| | 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 | 40A | 48A | 20A | 12A | 10A |
| | Fast Current | 100A | 120A | 50A | 30A | 25A |
| Discharge Specifications | Standard Current | 40A | 48A | 20A | 12A | 10A |
| | Max. Con. Current | 150A | 200A | 100A | 60A | 50A |
| | Peak Current | 800A(300ms) | 800A(300ms) | 500A(300ms) | 200A(300ms) | 200A(300ms) |
| | Cut-off Voltage | 10V | 10V | 20V | 30V | 40V |
| Mechanical Specifications | Dimensions (mm) | 490×171×240mm | | | | |
| | Approx Weight(KG) | 22 | 23 | 22 | 20 | 20 |
| | 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) | | |

12V 200Ah

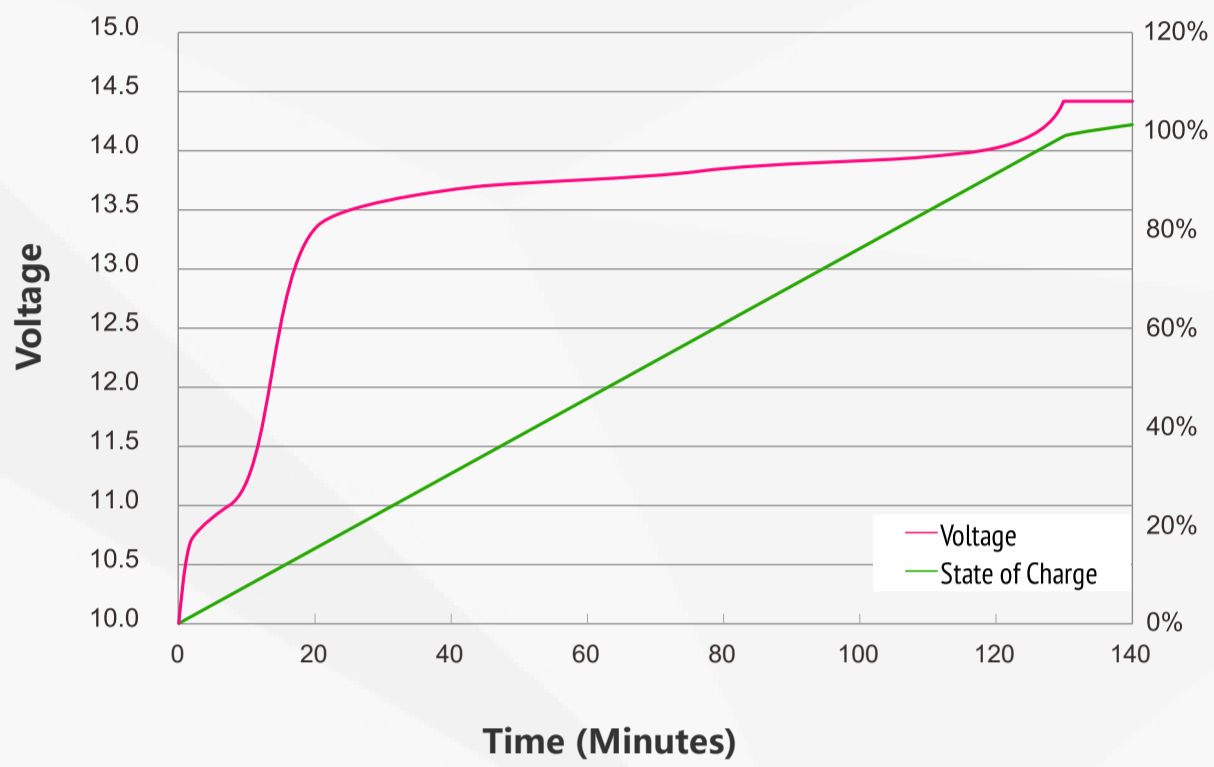
12V 240Ah

24V 100Ah

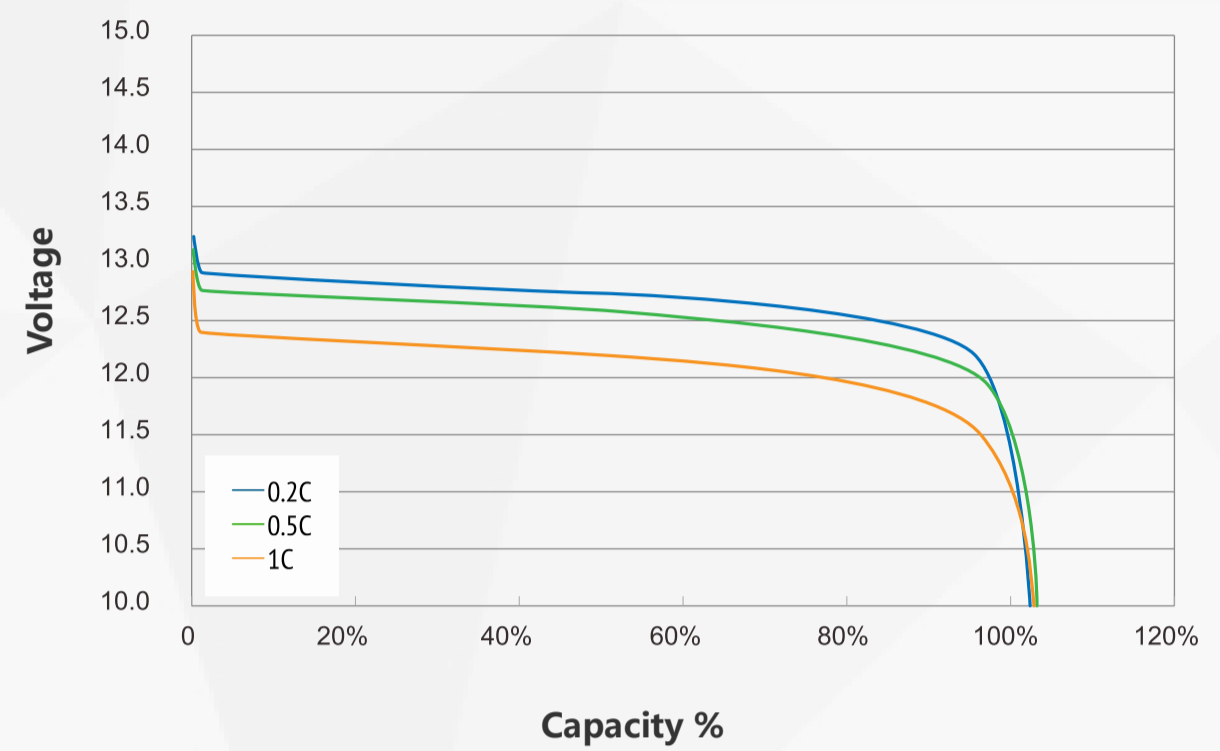
48V 50Ah

Characteristics Curve:

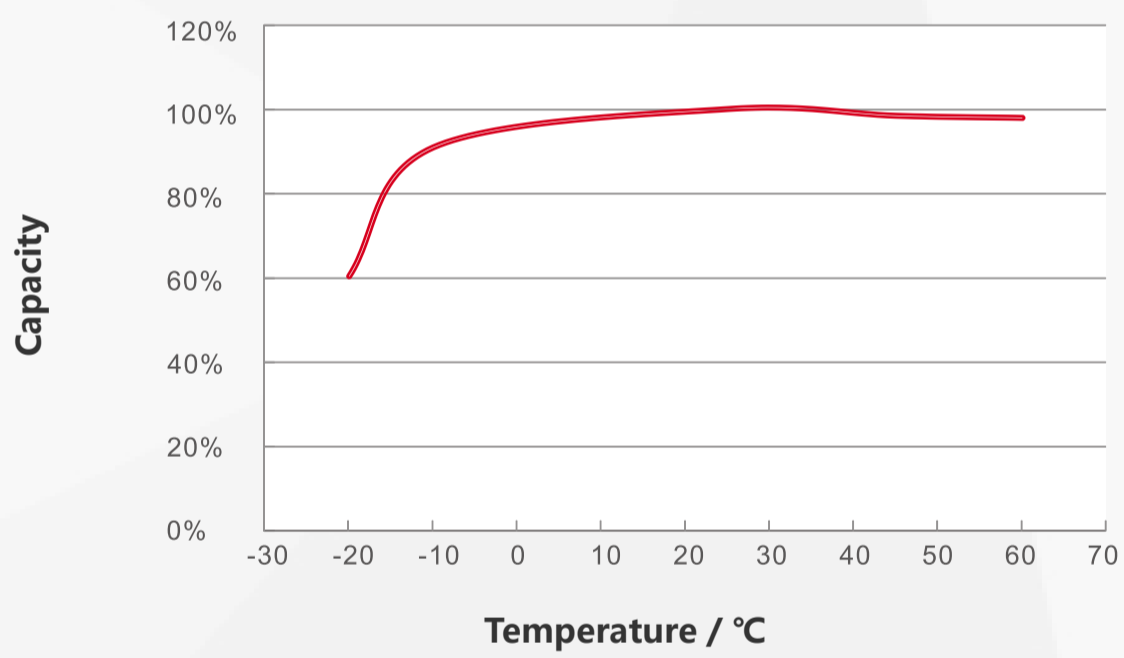
Charging Characteristics (0.5C @25°C)



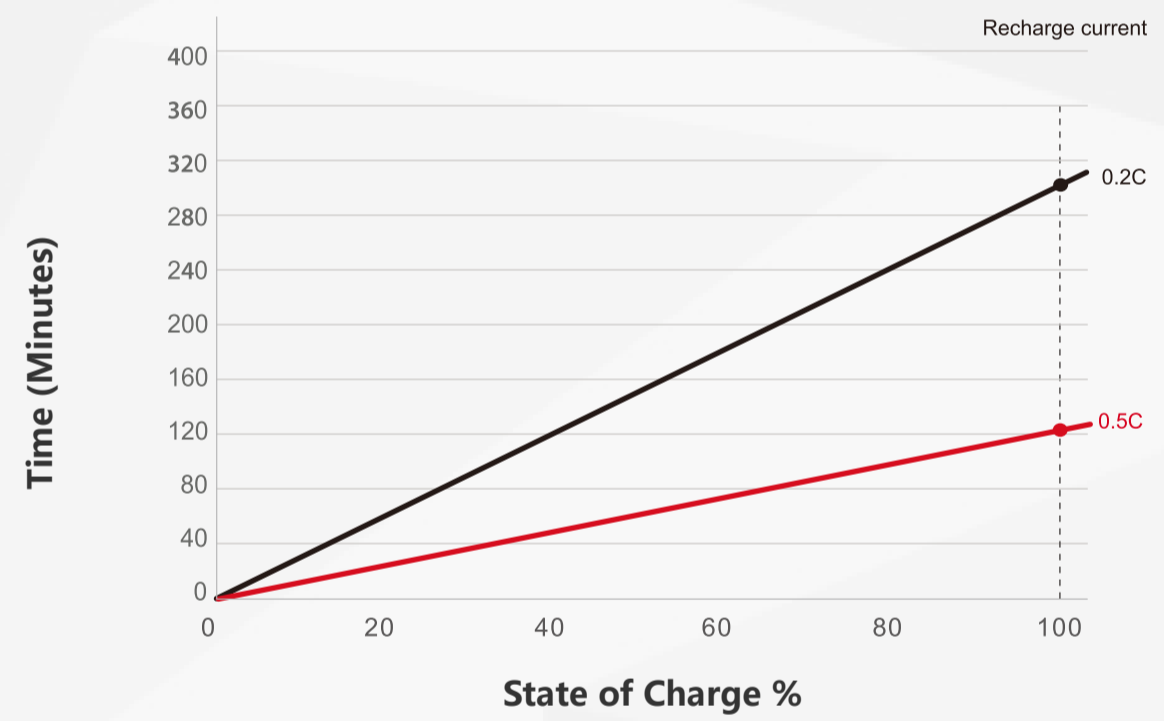
Discharging Characteristics (0.2C, 0.5C, 1C @25°C)



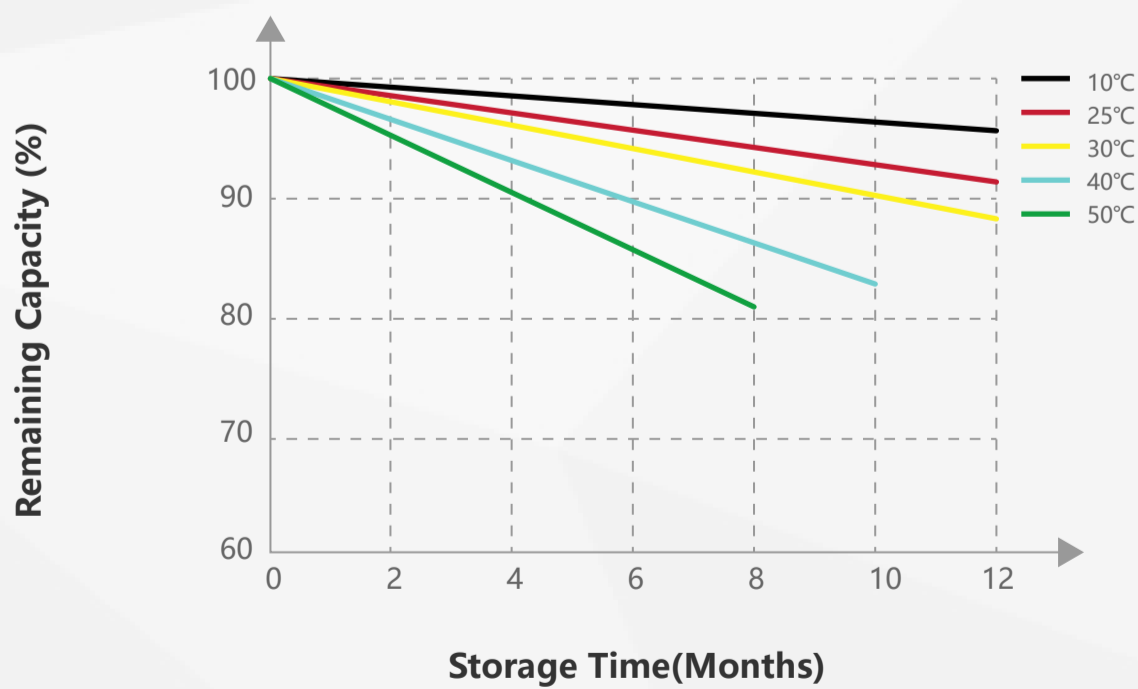
Different Temperature Capacity Curve



Typical Charge Time Curve



Different Temperature Self Discharge Curve



Different DOD Discharge Cycle Life Curve

