

12V 100Ah

12V 120Ah

24V 50Ah

48V 25Ah



Model Included:

- **NEBG24-12100** 12V 100Ah LiFePO4 Battery
- **NEBG24-12120** 12V 120Ah LiFePO4 Battery
- **NEBG24-2450** 24V 50Ah LiFePO4 Battery
- **NEBG24-3636** 36V 36Ah LiFePO4 Battery
- **NEBG24-4825** 48V 25Ah LiFePO4 Battery

neb energy®		Model				
		NEBG24-12100	NEBG24-12120	NEBG24-2450	NEBG24-3636	NEBG24-4825
Electrical Specifications	Nominal Voltage	12.8V	12.8V	24V	36V	48V
	Nominal Capacity	100Ah	120Ah	50Ah	36Ah	25Ah
	Parallel Connection	Max. 6units	Max. 6units	Max. 6units	Max. 6units	Max. 6units
	Serial Connection	Max. 4units	Max. 4units	Max. 2units	No	No
	BMS	4S100A	4S150A	8S50A	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	24A	10A	7A	5A
	Fast Current	50A	60A	25A	18A	12A
Discharge Specifications	Standard Current	20A	24A	10A	7A	5A
	Max. Con. Current	100A	120A	50A	36A	25A
	Peak Current	500A(300ms)	800A(300ms)	200A(300ms)	200A(300ms)	180A(300ms)
	Cut-off Voltage	10V	10V	20V	30V	40V
Mechanical Specifications	Dimensions (mm)	260×170×208mm (Group 24)				
	Approx Weight(KG)	11.5	13	12	12.5	11
	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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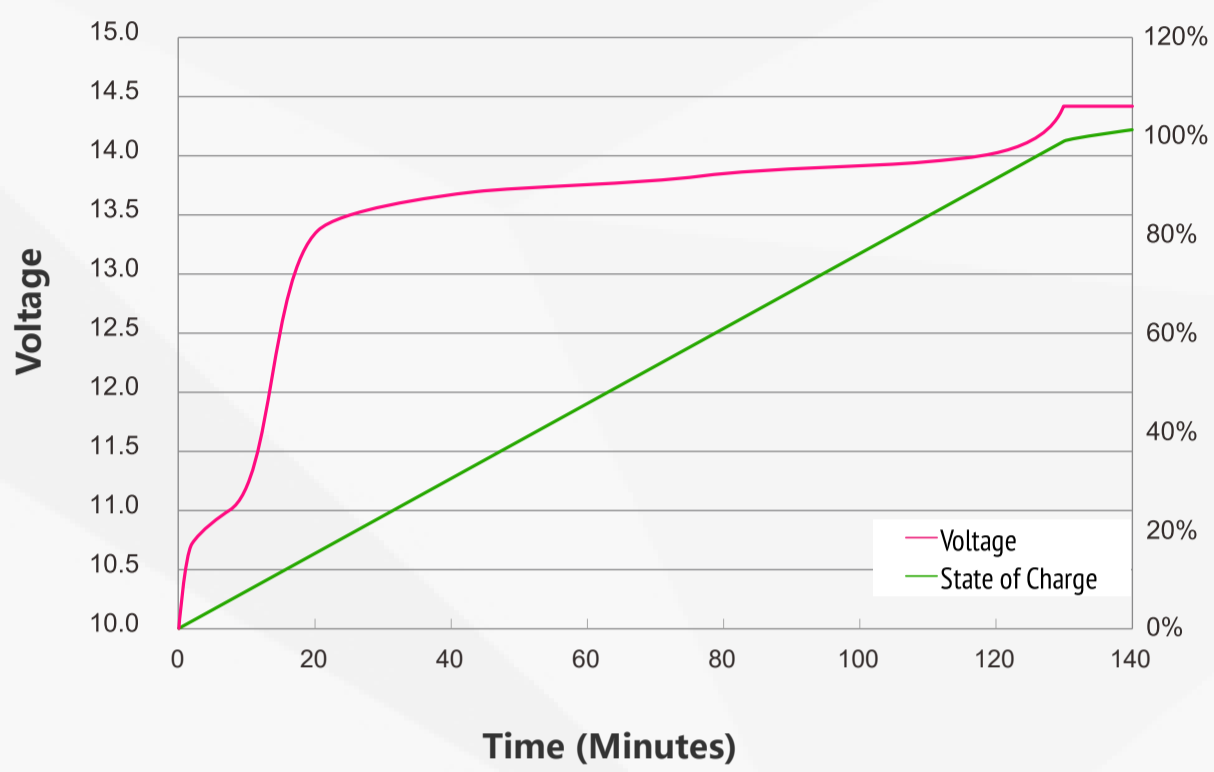
12V 120Ah

24V 50Ah

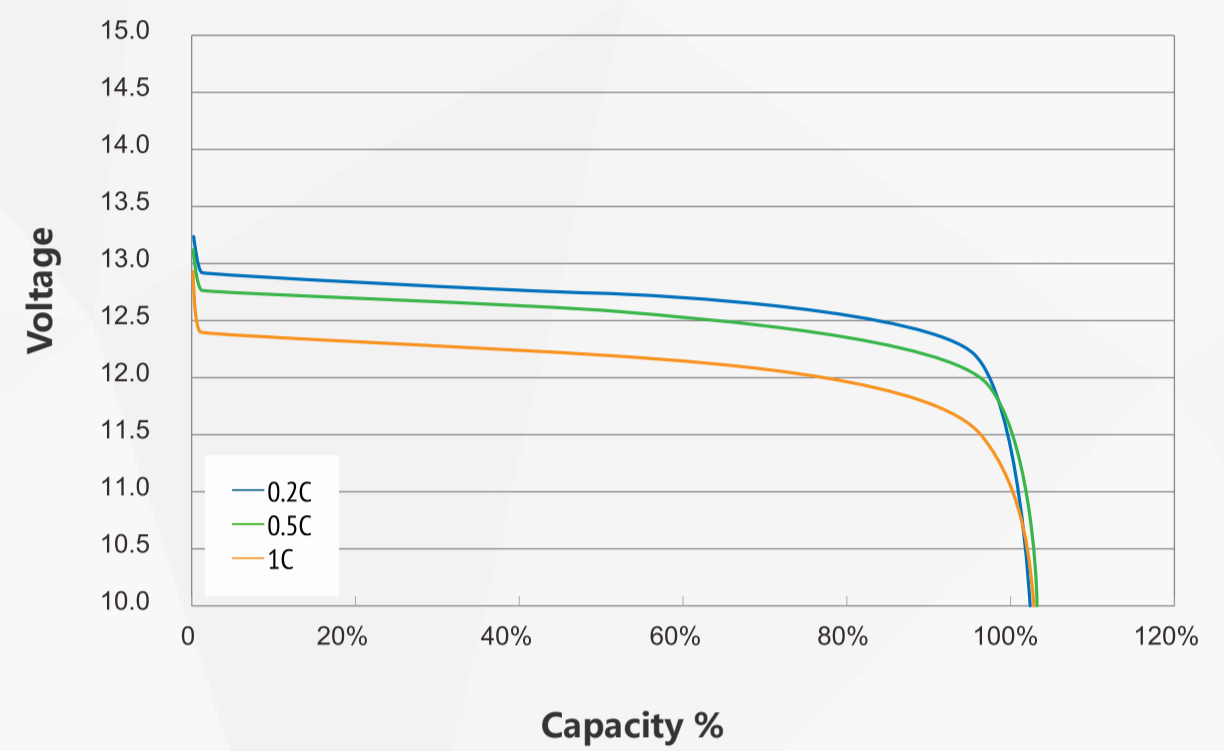
48V 25Ah

Characteristics Curve:

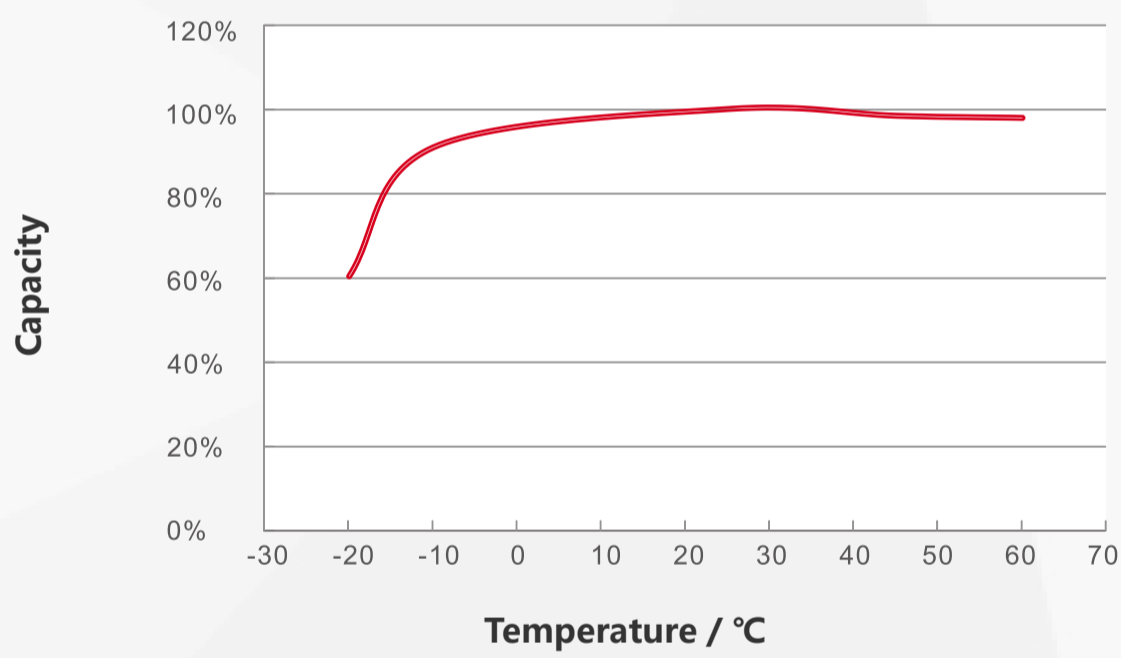
Charging Characteristics (0.5C @25°C)



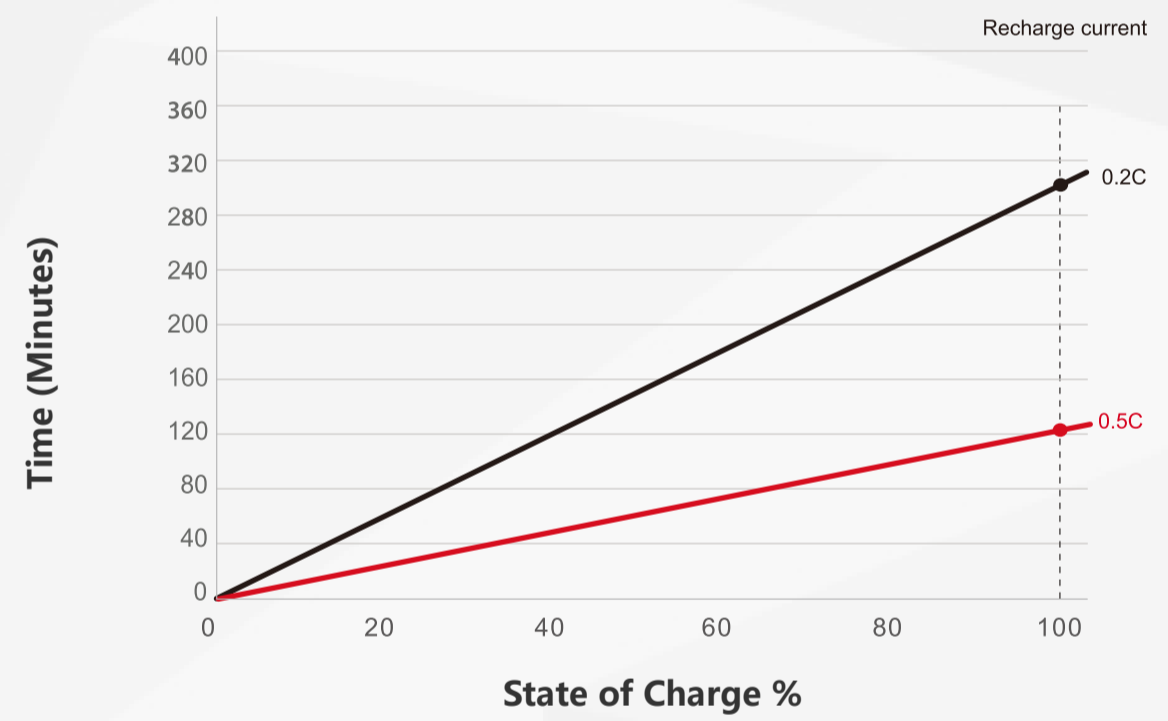
Discharging Characteristics (0.2C, 0.5C, 1C @25°C)



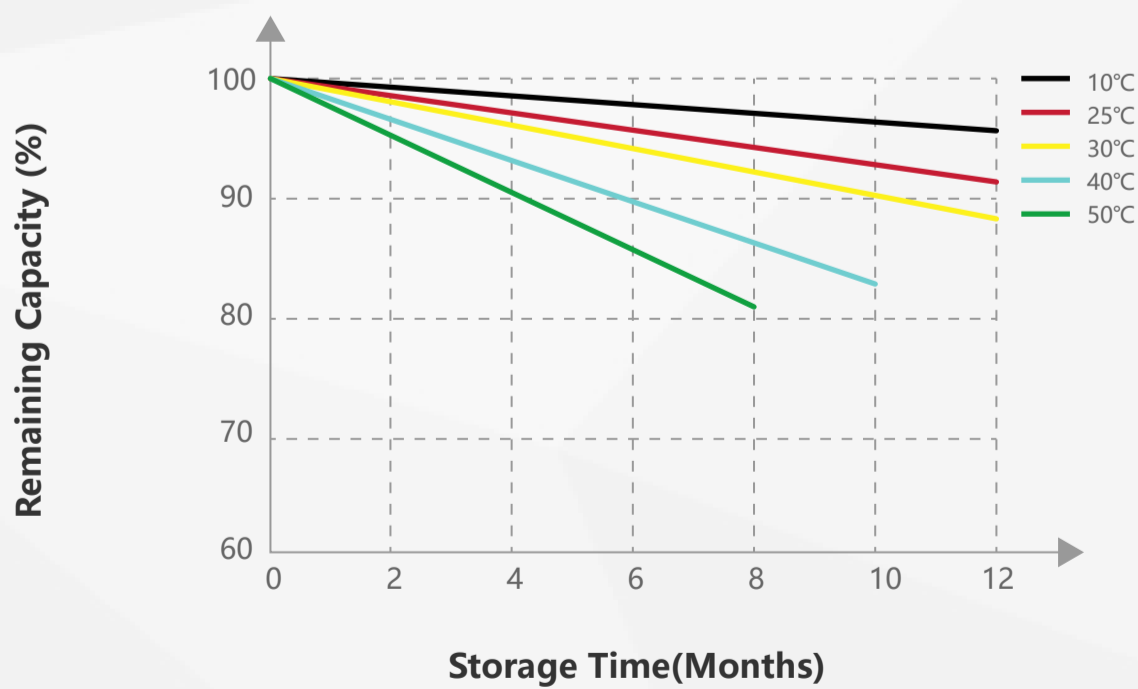
Different Temperature Capacity Curve



Typical Charge Time Curve



Different Temperature Self Discharge Curve



Different DOD Discharge Cycle Life Curve

