



Model: NM51.2-400ES01

51.2V400AH Battery Specification

1. Overview

Model: NM51.2-400ES01

Category: Lithium ion phosphate Battery

Application: Residential Energy Storage System, Telecom Base Backup.

2. Features

This battery consists of LiFePO4 cells, BMS, wire and metal container.

- High performance LFP cell, long life, safety and wide temperature range.
- High energy density, small size, light weight, no pollution.
- Packing with single cell container, fire retardant wire and copper connecting bar, stable and safe.
- Smart BMS protect battery from abnormal temperature, voltage, current, SOC, SOH.
- Wheel mounted design, simple installation and expand capacity by parallel.
- Flexible customization of dimensions, capacity, voltage.
- 15 years design life, Stable performance, maintenance free.

3. Picture



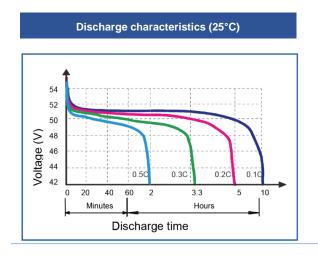


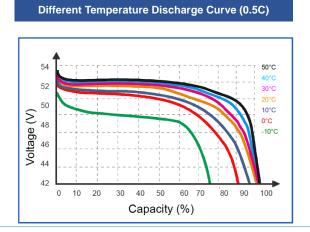
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4. Specification

SPECIFICATION	BASIC PARAMETERS	NM51.2-400ES01
Nominal	Rated Voltage (V)	51.2
	Rated Capacity (Ah)	400
	Rated Energy (Wh)	20480
	Cell Type	LiFePO4 Cell
Physical	Dimension (mm)	840/963(L)*696(W)*247(H)
	Weight (kg)	≈168
Electrical	Charge Instruction	CC/CV
	Charge Voltage (Vdc)	57.6
	Over Discharge Final Voltage (Vdc)	43.2
	Max. Charge current	200A
	Max. Discharge Current	200A
	Recommended Charge current	80A
	Internal Resistance	≤12m Ω
Others	Communication Port	RS232 /RS485 / CAN
	Parallel Connect Quantity (pcs)	Max to 15
	Working Temperature (°C)	0 to 45 charge
		-20 to 60 discharge
	Shelf Temperature (°C)	-20 to 45
	Altitude (m)	<2000
	IP Rating	IP20
	Humidity (RH)	5%∼95% RH
	Design life	15 years
	Cycle life	80%DOD>6000 cycles,@0.5C (25°C)
	Case and Cover	Sheet Metal

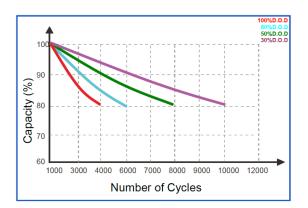
5. Curves



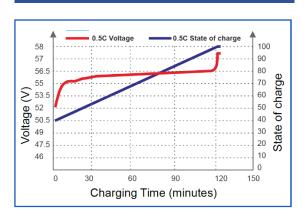


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Different DOD Discharge cycle life Curve (0.2C 25°C)



State of Charge Curve (0.5C,25°C)



6. Caution

- 1. Keep it away from Children.
- 2. Don't short-circuit battery.
- 3. Don't disassemble or modify the battery.
- 4. Don't use or leave battery nearby fire, stove or heated place.
- 5. Don't immerse battery in water, or make it wet.
- 6. Don't drive a nail into battery, strike it by hammer or tread it.
- 7. Please strictly use the battery according to above charge and discharge conditions.
- 8. Do not rap or throws, steps on the battery.
- 9. When battery is long-term storage, suggest to take one time charge and discharge and recharge it to half-charge state every 3 months.