

NBJLB10K12P 1000W

LiFePO₄ Lithium Battery Solar Portable Power

Longer Cycle Life: Offers up to 15 times longer cycle life and 5 times longer float/calendar life than lead acid battery.

Lighter Weight: About 40% weight of a comparable lead acid battery, save up to 60% in weight.

Quick Charge: Short charge time compared with lead acid battery.

Low Self-Discharge: Lower self-discharge compared with lead acid battery, longer storage time without recharging.

Superior Safety: Multi-protection methods built inside to protect the battery from overcharge, over discharge and short circuit situation.

High Efficient: Higher round-trip energy efficiency of the average (92%) than lead acid battery 80% (discharge from 100% to 0% and back to 100% charged).



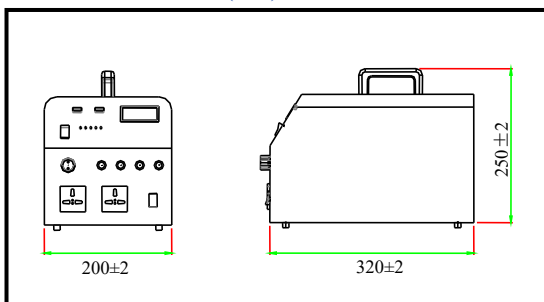
Specifications

Main output power		1000W 220Vac 50Hz
Information	Lithium Battery	12.8V 80Ah
	Solar Panel	18V 120W
Dimensions	Inverter	320x200x250 mm
	Solar Panel	1200x670x30 mm
Weight	inverter	10.20kg (22.49lbs)±4%
	solar panel	8.00kg (17.64lbs)±3%
Output port	USB	2pcs, each DC5V2A
	DC5.5x2.5	4pcs each DC12V 2A
	Universal Socket	2pcs total AC220V 1000W
AC output type		Inverse sine wave

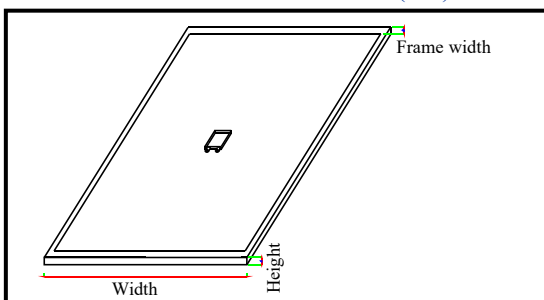
Characteristics

Electrical Parameters (25°C)	Rated output voltage	220V 50hz
	Rated Capacity (C _s)	80Ah@25°C
	Energy Storage	1024Wh
	Months Self Discharge	<3%
	Charge Efficiency	99.5%@ 0.2C
	Discharge Efficiency	96-99%@ 1C
Output port		USB/Universal Socket/DC5.5x2.5
Internal resistance (Fully charged, 25°C)		≤150mΩ
Lithium Battery Cycle life		>2000 cycles @ 0.2C 100%D.O.D
Capacity affected by temperature	40°C	101%
	25°C	100%
	0°C	90%
	-10°C	75%
Nominal operating temperature		25°C± 3°C (77°F± 5°F)
Operating temperature range	Discharge	- 20°C~ 60°C (-4°F ~ 140°F)
	Charge	0°C~ 45°C (32°F ~ 113°F)
	Storage	0°C~ 40°C (32°F ~ 104°F)
Water Dust Resistance		IP50
Charge Voltage		14.6V
External Standard Charge Mode (25°C±2°C, <75%RH)		0.2CA Constant Current to 14.6V, then Constant Voltage 14.6V until the current drops to 0.02CA, before use, rest 30 minutes
Charge Current		16A
Maximum Charge Current		40A
Charge Cut off Voltage		14.6V
Continuous Discharge Current		80A
Maximum Pulse Current		160A (<100ms)
Discharge Cut Off Voltage		11.2V
Communicate Protocol (optional)		None
SOC (optional)		LED Indicator
Application connection		1 string 1 parallel
Mechanical	Cells	LiFePO ₄ Cells 4 Strings
	Container	Metal

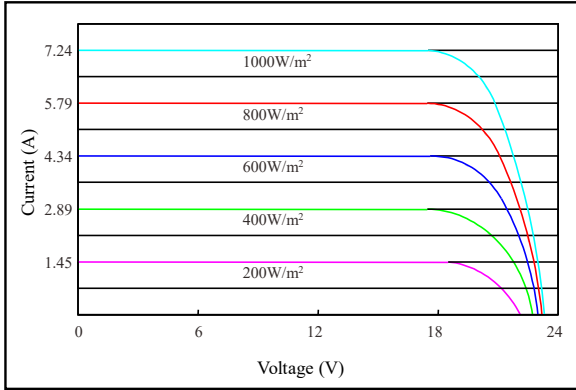
Inverter dimensions (mm)



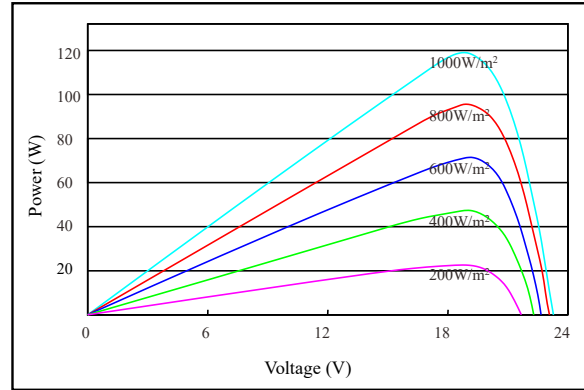
Solar Panel Dimensions-Bottom view (mm)



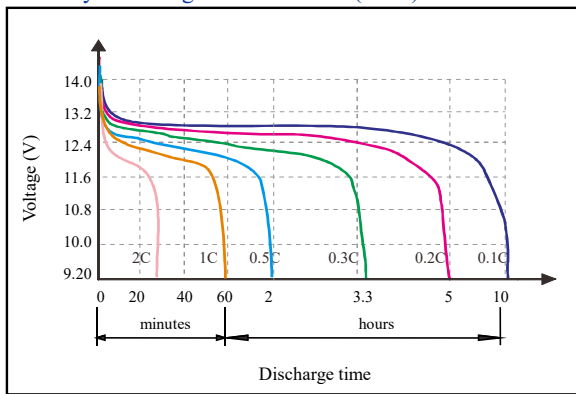
● Solar Panel: Current-Voltage Curve On Irradiance (25°C)



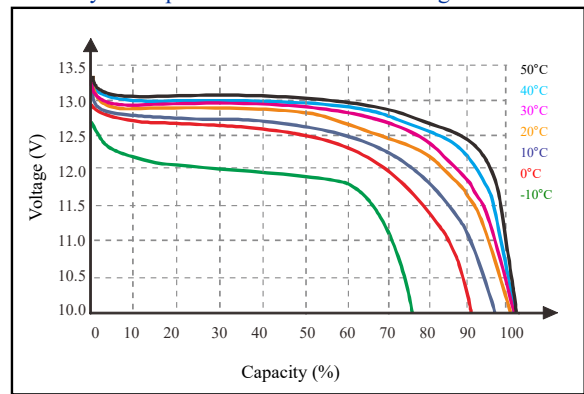
● Solar Panel: Power-Voltage Curve On Irradiance (25°C)



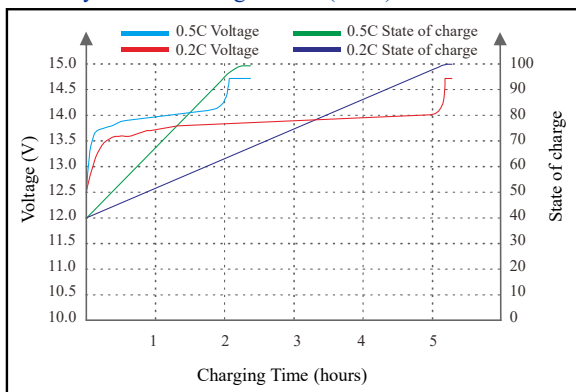
● Battery: Discharge characteristics (25°C)



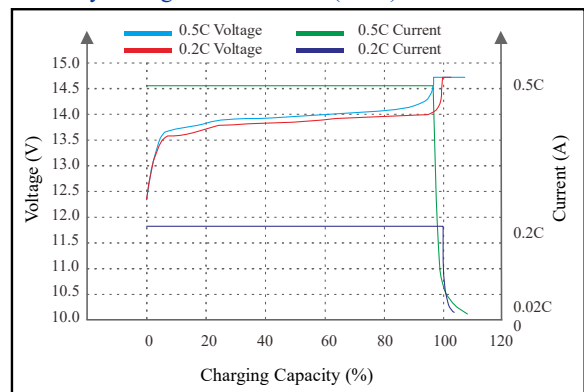
● Battery: Temperature affect on discharge characteristics



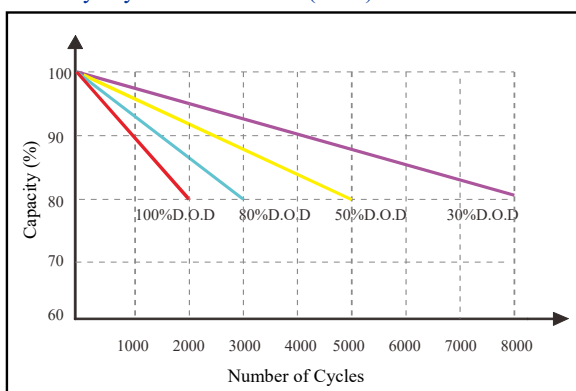
● Battery: State of Charge Curve (25°C)



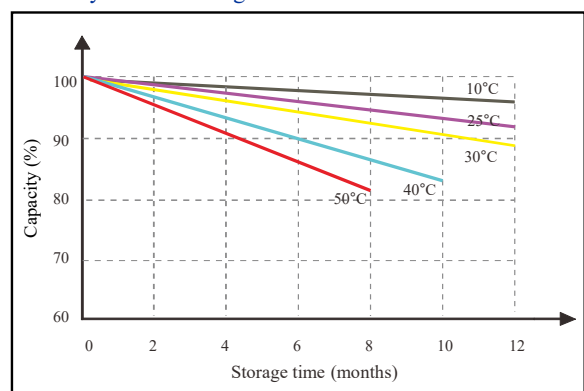
● Battery: Charge characteristics (25°C)



● Battery: Cycle life on D.O.D (25°C)



● Battery: Self Discharge Characteristics Curve



Note 2: The above curves are based on laboratory testing data @ 25°C 40%RH.