

# LITHIUM IRON PHOSPHATE BATTERY

May the power be with you



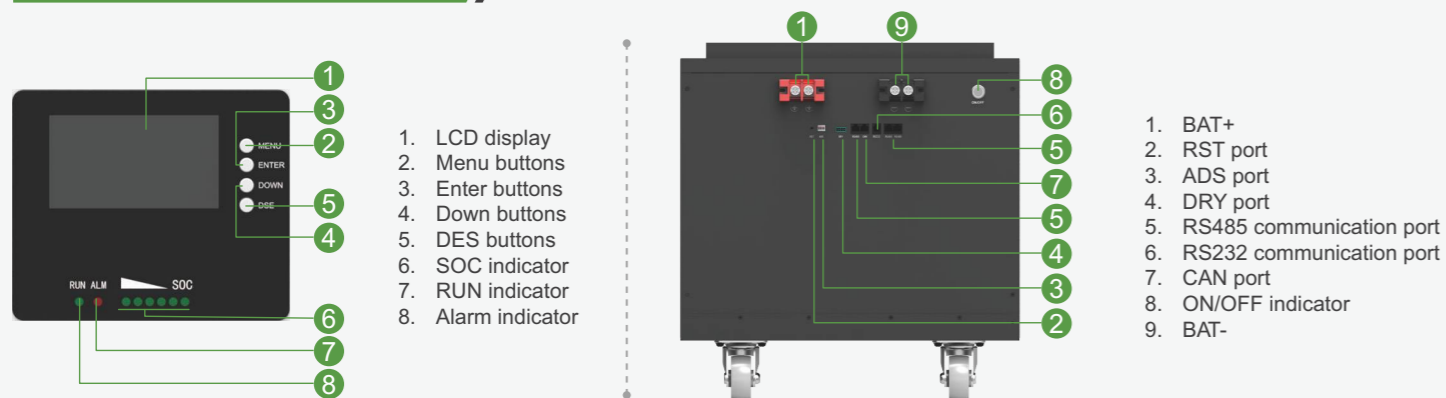
## NE2500 Series

NE2500 is a new type of lithium battery energy storage system. Energy storage is configured differently depending on the needs of the home, the battery capacity is 5.12kWh to 12.8kWh. Very suitable for home emergency power storage as solar battery.

\* Custom capacity is acceptable.

- + High-Efficient Energy Storage Batteries.
- + Modular design providing escort in emergency.
- + The safest lithium solar battery material (LFP) battery
- + Integrated battery management system (BMS)
- + Battery system designed for PV household application
- + Longer cycle life  $\geq 4000$  cycles

## Pic of Input & Output Port



# LITHIUM IRON PHOSPHATE BATTERY NE2500 SERIES

NEEXGENT®

## Specifications

MODEL	NE2500-25200	NE2500-25250	NE2500-51200	NE2500-51250
Nominal Voltage	25.6V		51.2V	
Nominal Capacity	200Ah	250Ah	200Ah	250Ah
Energy	5120Wh	6400Wh	10240Wh	12800Wh
Communication	CAN2.0/RS232/RS485			
Resistance	$\leq 50 \text{ m}\Omega$ @ 50% SOC			
Efficiency	$\leq 96\%$			
Recommended Charge Current	100A			
Maximum Continuous Discharge Current	100A			
Maximum load power	2.5KW		5KW	
Recommended Charge Voltage	28.8V		57.6V	
BMS Charge Cut-Off Voltage	$< 29.2 \text{ V (3.65V/Cell)}$		$< 58.4 \text{ V (3.65V/Cell)}$	
Reconnect Voltage	$> 28.8 \text{ V (3.6V/Cell)}$		$> 57.6 \text{ V (3.6V/Cell)}$	
Balancing Voltage	$< 28.8 \text{ V (3.6V/Cell)}$		$< 57.6 \text{ V (3.6V/Cell)}$	
Balancing open voltage	27.6V (3.45V/Cell)		55.2V (3.45V/Cell)	
Recommended Low Voltage Disconnect	22V (2.75V/Cell)		44V (2.75V/Cell)	
BMS Discharge Cut-Off Voltage	$> 20.0\text{V (2s) (2.5V/Cell)}$		$> 40.0\text{V (2s) (2.5V/Cell)}$	
Reconnect Voltage	$> 22.0\text{V (2.75V/Cell)}$		$> 44.0\text{V (2.75V/Cell)}$	
Discharge Temperature	$-4 \sim 131 \text{ }^\circ\text{F (-20} \sim 55 \text{ }^\circ\text{C)}$			
Charge Temperature	$-4 \sim 113 \text{ }^\circ\text{F (0} \sim 45 \text{ }^\circ\text{C)}$			
Storage Temperature	$23 \sim 95 \text{ }^\circ\text{F (-5} \sim 35 \text{ }^\circ\text{C)}$			
BMS High Temperature Cut-Off	149 $^\circ\text{F (65 }^\circ\text{C)}$			
Reconnect Temperature	131 $^\circ\text{F (55 }^\circ\text{C)}$			
Dimension (L x W x H)	540*450*473mm		540*450*636mm	
Terminal Type	DIN POST			
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)			
Case Material	SPPC			
Enclosure Protection	IP20			
Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)			
Shipping Classification	UN 3480, CLASS 9			

The technical specifications of this document are subject to change without any notice