

# NUE POWER BLOCK 36V 100AH

## LiFePO<sub>4</sub> BLUETOOTH BROADBAND BATTERY

Move into the 21<sup>st</sup> century with safe and efficient **LiFePO<sub>4</sub>** cell technology to replace under-performing lead acid batteries.

### PERFORMS AT 122°F / 50°C

Operating in hot climates won't prematurely kill the battery or cut its rating

### PREVENTS THEFT

Unique application voltage prevents re-use

### LONG-LASTING FORM FACTOR

Industrial lithium cells last 2-3X that of lead acid in non-broadband applications

### NEAR-FULL ENERGY USAGE

Use at least 80% of the battery energy

### BLUETOOTH & BASIC APPLICATION

Allows technicians to see the same comprehensive battery information as the NOC without opening the enclosure

### HIGH CYCLE LIFE

Our battery cells are designed for over 5000 cycles

### FAST CHARGING

Charges up to 4 times faster than lead acid

### SIMPLE CONNECTIONS

Includes 2 simple post connections per battery tray



[CLICK TO CONTACT US TODAY](#)

Our 36V battery outshines the performance of lead acid batteries—allowing you to use almost all of the battery, not just 50%. And why de-rate a battery when temperatures exceed 77°F (25°C)? Our batteries continue to work at full force over 122°F (50°C). Charge faster and more efficiently with the **NUE 36V LiFePO<sub>4</sub> Bluetooth Broadband Battery** without the need to trickle charge like a lead acid battery. The low maintenance of LiFePO<sub>4</sub> will make cleaning nuts, bolts and cables a thing of the past.

We choose to use LiFePO<sub>4</sub> (Lithium Ferro Phosphate) cell technology because it has been adopted as the global standard for in-home solar energy storage. If it is safe enough to be in millions of homes around the world, it is safe for your network.



NEW USE ENERGY SOLUTIONS, INC. • [newuseenergy.com](http://newuseenergy.com) • [sales@newuseenergy.com](mailto:sales@newuseenergy.com)

941 S. Park Lane, #102, Tempe AZ 85281 • +1 844 941 3476

[/newuseenergy](https://www.newuseenergy.com)

# NUE POWER BLOCK 36V 100AH

## LiFePO<sub>4</sub> BLUETOOTH BROADBAND BATTERY

### LITHIUM IRON PHOSPHATE BATTERY SPECIFICATIONS

SKU: NUE-BAT-36V100AH-BT  
BLUETOOTH BATTERY

Electrical Performance	
Nominal Voltage	38.4V
Nominal Capacity	100AH
Energy Storage	3840Wh
Charge Cut Off Voltage	43.8V
Discharge Cut Off Voltage	30.0V
Self Discharge	< 1% / MONTH
Cells	PRISMATIC CELLS

Charge Performance	
Recommended Charge Current	20A
Maximum Charge Current	100A
Recommended Charge Voltage	43.8V
Bms Charge Cut Off Voltage	43.8V
Reconnect Voltage	42.6V
Balancing Voltage	42V
Max Battery Parallel	16

Discharge Performance	
Max Cont. Discharge Current	100A
Peak Discharge Current	200A
Bms Discharge Cut Off Current	250A
Low Voltage Disconnect	30V
Bms Discharge Cut Off Voltage	30V
Reconnect Voltage	31.2V
Short Circuit Protection	230uS — 500uS

Mechanical Specs	
Dimension (L X W X H)	17.7" x 12.6" x 7.9" / 450 x 320 x 200mm
Weight	77lbs / 35 kg
Terminal Type	M8
Terminal Torque	150 in-lbs
Case Material	METAL
Enclosure Protection	IP65

Temperature Performance	
Charge Temperature	32°F - 149°F / 0 - 65°C
Discharge Temperature	-4°F - +158°F / -20 - +70°C
Storage Temperature	41°F - 95°F / 5 - 35°C
Bms High Temperature Cut Off	149°F / 65°C
Reconnect Temperature	131°F / 55°C

Communications	
Ports	RS-485
Protocol	RS-485
Dry Contacts	4
Bms Integrated	BUILT IN
Operation Temperature	-40°F - +185°F / -40 - +85°C

Compliance	
Certifications	CE, UN38.3, UL1642 & IEC62133
Shipping Classification	UN3480, CLASS 9

