



NEXUS 2

F-NXUS2-48161-G1



FEATURES

- **Performance:** Uninterrupted, long-lasting power for any off-grid application.
- **Chemistry:** Advanced LiFePO₄ for safety and longevity.
- **Design:** Rugged, floor-standing design for easy installation in tech closets, garages, cabins, or sheds.
- **Protection:** Integrated BMS with quadruple safety redundancies.
- **Scalability:** High-capacity, expandable storage solution up to 215kWh.
- **Applications:** Off-grid solar, commercial backup, and home EPS.

SYSTEM PARAMETERS

Note: Bulk, Absorption, Float, and Equalize are not applicable to lithium batteries but are included here with the correct numbers to input into your charge controller as they are our most commonly requested parameters.

SKU	F-NXUS2-48161-G1
System Voltage	48V
Charge Voltage	57V
Bulk Voltage	57V
Absorption Voltage	57V
Absorption Time	0 minutes
Float Voltage	55V
Equalize	Off
Low Voltage Cutoff	48V
High Voltage Cutoff	57V
Suggested Inverter Low Voltage Setting	50.8V

CONTACT US

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FREQUENTLY ASKED QUESTIONS

How do I connect this battery into my existing system?

These batteries use a standard M8 terminal. This battery can be connected directly to the on-board wiring system. You may also purchase additional cables from BigBattery.

How many times can I put this battery in parallel/series?

These batteries are not series capable but can be connected in parallel up to ten times. Make sure that the total amount of these batteries in your configuration never exceeds 15 total batteries. When connecting batteries in parallel, ensure all batteries are within 1 volt of one another.

How long will my battery last, and what do I do at the end of its life?

Lithium iron phosphate (LiFePO₄) batteries can be cycled over 8000 times. If you cycle the battery daily then you can get more than 12 years of use from your battery. When your battery is at the end of its lifespan, contact us and we'll recycle it for you, free of charge!

Nexus 2 | Battery Specifications

SKU	F-NXUS2-48161-G1
System Voltage	48V
Nominal Voltage	51.2V
Chemistry	LiFePO4
kWh Capacity	16.08kWh
Ah Capacity	314Ah
Charging Voltage Range	53.5V ~ 57.6V
Max Charge Voltage	57.9V
Operating Voltage Range	48V~57.6V
Suggested Low Voltage Cutoff	50.8V
Cell Configuration	16S1P
Max Continuous Discharge Current	150A
Max Continuous Power	7.6kW
Max Discharge Peak Current	270A (2s)
Max Charge Current	150A
Charge Temperature Range*	-4°F ~ 120°F
Discharge Temperature Range	-4°F ~ 120°F
Optimal Discharge Temperature Range	59°F to 95°F
Storage Temperature Range (SoC >50%)	1 month: -4°F ~ 113°F 3 months: -4°F ~ 95°F 6 months: -4°F ~ 77°F
Humidity Range	10%~95% (No Condensation)
Dimension (WxHxD)	19.7x30.8x15.7 in 500x782x400 mm
Weight (lbs)	~315 lbs
Altitude	<2000m
Max Connections	Max 15 in parallel(241.5kwh)
Communications	RS485/RJ45 CAN
Protection Rating	IP54
Certifications	UN38.3
Installation	Indoor floor-standing installation

*The battery will start charging after the heating element has taken effect at 32°F