



RHINO 2

FRHNO-48143-G2



FEATURES

- CANBus/RS485 communications
- IP65 protection rating
- Interactive LED Display
- Self-heating function
- Smart BMS with auto-cell balancing
- UN38.3, UL1973, UL9540, & UL9540a certified

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.

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|--|----------------|
| SKU | FRHNO-48143-G2 |
| 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

Phone: (818) 280-3091 **Email:** Sales@BigBattery.com

Hours: Monday - Friday, 9:00 AM - 5:00 PM PST

Address: 21314 Lassen St. Chatsworth, CA 91311

FREQUENTLY ASKED QUESTIONS

How do I connect this battery into my existing system?

These batteries use a UL-certified ESS connector. Each battery can be connected using the included cables. 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 3 times when connected to a single inverter. It is recommended not to exceed more than 3 parallel connections per 1 inverter. When connecting batteries in parallel, ensure all batteries are within 0.3 volts 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 from 3500 - 5000 times (80% DoD, 0.5C). If you cycle the battery daily, you can get over 10 years of use from your battery. When your battery is at the end of its lifespan, contact us & we'll recycle it for you, free of charge!

BATTERY SPECIFICATIONS



| | |
|--------------------------------------|---|
| SKU | FRHNO-48143-G2 |
| System Voltage | 48V |
| Nominal Voltage | 51.2V |
| Chemistry | LiFePO4 |
| kWh Capacity | 14.34 kWh |
| Ah Capacity | 280 Ah |
| Charging Voltage Range | 55.6V - 57V |
| Max Charge Voltage | 57V |
| Operating Voltage Range | 48V - 57V |
| Suggested Low Voltage Cutoff | 48V - 50.8V |
| Cell Configuration | 16S |
| Max Continuous Discharge Current | 200A |
| Max Continuous Power | 10240W |
| Max Discharge Peak Current | 300A (Max 5 seconds) |
| Max Charge Current | 200A |
| Charge Temperature Range | -4°F - 113°F (-20°C - 45°C) |
| Discharge Temperature Range | -4°F - 122°F (-20°C - 50°C) |
| Optimal Discharge Temperature Range | 59°F - 95°F (15°C - 35°C) |
| Storage Temperature Range (SoC >50%) | -4°F - 113°F (-20°C - 45°C) (Max 6 months) |
| Dimensions (DxWxH) | 9.1 x 22.3 x 34.6 in (231 x 566.5 x 879 mm) |
| Weight | 308.6 lbs (140 kg) |
| Max Connections | Up to (3) parallel connections per (1) inverter |
| Communications | CANBus / RS485 |
| Protection Rating | IP65 |
| Certifications | UL9540, UL9540a, UL1973, & UN38.3 |