



# RHINO 2

FRHNO-48143-G2

## FEATURES

- CANBus / RS485 communications
- IP65 / NEMA 4X protection rating
- Interactive LED display
- Self-heating function
- Smart BMS with auto-cell balancing
- UL9540A, UL1973, & UN38.3 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.

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 / NEMA 4X
Certifications	UL9540A, UL1973, & UN38.3