



# EAGLE 2

FEAGL-XX016-G2-XXX



## FEATURES

- GC2 form factor
- CANbus communications (optional)
- Self-heating function
- IP67 protection rating
- LED State of Charge indicator
- Smart BMS with auto-cell balancing
- Bluetooth monitoring (optional)

## 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	FEAGL-24016-G2-XXX	FEAGL-48016-G2-XXX
System Voltage	24V	48V
Charge Voltage	29V	58V
Bulk Voltage	29V	58V
Absorption Voltage	29V	58V
Absorption Time	0 minutes	0 minutes
Float Voltage	27.5V	55V
Equalize	Off	Off
Low Voltage Cutoff	24V	48V
High Voltage Cutoff	28.8V	58.8V
Suggested Inverter Low Voltage Setting	25.4V	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 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 ten 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 (LiFePO<sub>4</sub>) batteries can be cycled from 3500 - 5000 times. If you cycle the battery daily then you can get more than 10 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!

# BATTERY SPECIFICATIONS



24V



24V



48V

SKU	FEAGL-24016-G2-00H	FEAGL-24016-G2-0CH	FEAGL-48016-G2-0CH
System Voltage	24V	24V	48V
Nominal Voltage	25.6V	25.6V	51.2V
Chemistry	LiFePO4	LiFePO4	LiFePO4
kWh Capacity	1.63 kWh	1.63 kWh	1.63 kWh
Ah Capacity	64	64	32
Charging Voltage Range	27.8V - 29V	27.8V - 29V	55.6V - 58V
Max Charge Voltage	29.2V	29.2V	58.4V
Operating Voltage Range	24V - 28.8V	24V - 28.8V	48V - 58.8V
Suggested Low Voltage Cutoff	24V - 25.4V	24V - 25.4V	48V - 50.8V
BMS Cutoff Range	21V - 23.5V	21V - 23.5V	42V - 47V
Cell Configuration	8S	8S	16S
Max Cont. Discharge Current	100A	100A	60A
Max Continuous Power	2560W	2560W	3072W
Max Discharge Peak Current	200A (Max 5 seconds)	200A (Max 5 seconds)	200A (Max 3 seconds)
Max Charge Current	64A	64A	30A
Charge Temperature Range	-4°F - 131°F (-20°C - 55°C)	-4°F - 131°F (-20°C - 55°C)	-4°F - 131°F (-20°C - 55°C)
Discharge Temperature Range	-4°F - 140°F (-20°C - 60°C)	-4°F - 140°F (-20°C - 60°C)	-4°F - 140°F (-20°C - 60°C)
Optimal Discharge Temp. Range	59°F - 95°F (15°C - 35°C)	59°F - 95°F (15°C - 35°C)	59°F - 95°F (15°C - 35°C)
Storage Temp. Range (SoC >50%)	23°F - 95°F (-5°C - 35°C) (Max 3 months) 32°F - 77°F (0°C - 25°C) (Max 12 months)	23°F - 95°F (-5°C - 35°C) (Max 3 months) 32°F - 77°F (0°C - 25°C) (Max 12 months)	23°F - 95°F (-5°C - 35°C) (Max 3 months) 32°F - 77°F (0°C - 25°C) (Max 12 months)
Dimensions (DxWxH)	7.1 x 10.24 x 9.8 in (180 x 260 x 249 mm)	7.1 x 10.24 x 9.8 in (180 x 260 x 249 mm)	7.1 x 10.24 x 9.8 in (180 x 260 x 249 mm)
Weight	33 lbs (15 kg)	33 lbs (15 kg)	33 lbs (15 kg)
Max Connections	Up to (10) Parallel	Up to (10) Parallel	Up to (10) Parallel
Protection Rating	IP67	IP67	IP67
Communications	No	CANBus	CANBus
Heating Function	Yes	Yes	Yes