



ETHOS

FETHS-48051-G1 & CNT060



FEATURES

- CANBus/RS485 communications
- IP65 protection rating
- Interactive LED Display
- Up to (16) units per control box (81.6 kWh)
- Smart BMS with auto-cell balancing
- Bluetooth monitoring
- UL9540, UL9540a, UL1973, & UN38.3 certified

SYSTEM PARAMETERS

Note: Bulk, Absorption, Float, & 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	FETHS-48051-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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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 amphenol ESS connector. Each module 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 16 times. Make sure that the total amount of these batteries in your configuration never exceeds sixteen total batteries. 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 (LiFe-PO4) 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	KIT0949	KIT0950
System Voltage	48V	48V
Nominal Voltage	51.2V	51.2V
Chemistry	LiFePO4	LiFePO4
kWh Capacity	10.24 kWh	15.36 kWh
Ah Capacity	200 Ah	300 Ah
Charging Voltage Range	55.6V - 57V	55.6V - 57V
Max Charge Voltage	58.8V	58.8V
Operating Voltage Range	48V - 57V	48V - 57V
Suggested Low Voltage Cutoff	48V - 50.8V	48V - 50.8V
Cell Configuration	16S 2P	16S 3P
Max Continuous Discharge Current	200A	250A
Max Continuous Power	10240W	12800W
Max Discharge Peak Current	300A (Max 5 seconds)	300A (Max 5 seconds)
Max Charge Current	200A	200A
Charge Temperature Range	32°F - 113°F (0°C - 45°C)	32°F - 113°F (0°C - 45°C)
Discharge Temperature Range	-4°F - 140°F (-20°C - 60°C)	-4°F - 140°F (-20°C - 60°C)
Optimal Discharge Temperature Range	59°F - 95°F (15°C - 35°C)	59°F - 95°F (15°C - 35°C)
Storage Temperature Range (SoC >50%)	-4°F - 113°F (-20°C - 45°C) (Max 6 months)	-4°F - 113°F (-20°C - 45°C) (Max 6 months)
Dimensions (DxWxH)	6.7 x 26.5 x 43.3 in (170 x 674 x 1100 mm)	6.7 x 26.5 x 59.8 in (170 x 674 x 1520 mm)
Weight	273 lbs (123.8 kg)	387 lbs (175.5 kg)
Max Connections	Up to (16) parallel connections per control box	Up to (16) parallel connections per control box
Communications	CANBus / RS485	CANBus / RS485
Protection Rating	IP65	IP65
Certifications	UL9540, UL9540a, UL1973, & UN38.3	UL9540, UL9540a, UL1973, & UN38.3

BATTERY SPECIFICATIONS



SKU	KIT0951	KIT0953
System Voltage	48V	48V
Nominal Voltage	51.2V	51.2V
Chemistry	LiFePO4	LiFePO4
kWh Capacity	20.48 kWh	30.72 kWh
Ah Capacity	400 Ah	600 Ah
Charging Voltage Range	55.6V - 57V	55.6V - 57V
Max Charge Voltage	58.8V	58.8V
Operating Voltage Range	48V - 57V	48V - 57V
Suggested Low Voltage Cutoff	48V - 50.8V	48V - 50.8V
Cell Configuration	16S 4P	16S 6P
Max Continuous Discharge Current	250A	250A
Max Continuous Power	12800W	12800W
Max Discharge Peak Current	300A (Max 5 seconds)	300A (Max 5 seconds)
Max Charge Current	200A	200A
Charge Temperature Range	32°F - 113°F (0°C - 45°C)	32°F - 113°F (0°C - 45°C)
Discharge Temperature Range	-4°F - 140°F (-20°C - 60°C)	-4°F - 140°F (-20°C - 60°C)
Optimal Discharge Temperature Range	59°F - 95°F (15°C - 35°C)	59°F - 95°F (15°C - 35°C)
Storage Temperature Range (SoC >50%)	-4°F - 113°F (-20°C - 45°C) (Max 6 months)	-4°F - 113°F (-20°C - 45°C) (Max 6 months)
Dimensions (DxWxH)	6.7 x 53.1 x 43.3 in (170 x 1349 x 1100 mm)	6.7 x 53.1 x 59.8 in (170 x 1349 x 1520 mm)
Weight	513 lbs (232.7 kg)	755 lbs (342.5 kg)
Max Connections	Up to (16) parallel connections per control box	Up to (16) parallel connections per control box
Communications	CANBus / RS485	CANBus / RS485
Protection Rating	IP65	IP65
Certifications	UL9540, UL9540a, UL1973, & UN38.3	UL9540, UL9540a, UL1973, & UN38.3