

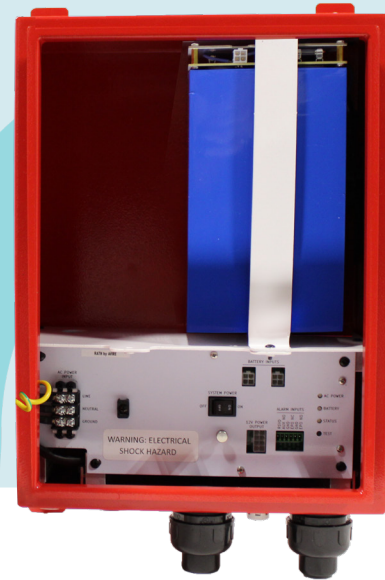
# SAFE-BBU-1000/2000

Battery Backup



## Enhanced performance with lithium iron phosphate (LiFePO<sub>4</sub>) technology.

- Integrated AC power supply offers smooth system transition to battery power.
- More compact & lightweight than traditional batteries.
- Cell-balancing circuitry, over-current protection & prevention of over-charge/over-discharge extends the life of the batteries.
- Low self-discharge when not in use, no outgassing, no memory effect.
- Features external power-off switch (EPO).



## Specifications

Part Number	SAFE-BBU-1000 (1 battery pack)	SAFE-BBU-2000 (2 battery packs)
Input	120 VAC	120 VAC
Output Power	9 - 12 VDC (max = 10 amps at 12 VDC)	9 - 12 VDC (max = 10 amps at 12 VDC)
Alarm Outputs*	Active low: 0 to 5V	Active low: 0 to 5V
Backup Duration	12 or 24 hours	24 hours
Weight (Enclosure + Battery)	32 lbs	44 lbs
Dimensions	15 x 12 x 6.7 inches	19 x 18 x 6.7 inches
Enclosure	NEMA 4	NEMA 4
Operating Temperature	14°F to 122°F (-10°C to 50°C)	14°F to 122°F (-10°C to 50°C)
Code Compliance	UL 2524, NFPA 1221/1225	UL 2524, NFPA 1221/1225
NFPA Alarm Outputs	AC power loss, battery charge failure, battery level low and auxiliary alarm	AC power loss, battery charge failure, battery level low and auxiliary alarm

\*Connects to BDA via 2m/6.5ft cable (provided)

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## Internal View



One battery pack installed.

## LED Indicators

AC POWER										
BATTERY										
STATUS										
STATE	1	2	3	4	5	6	7	8	9	10

Fig.1

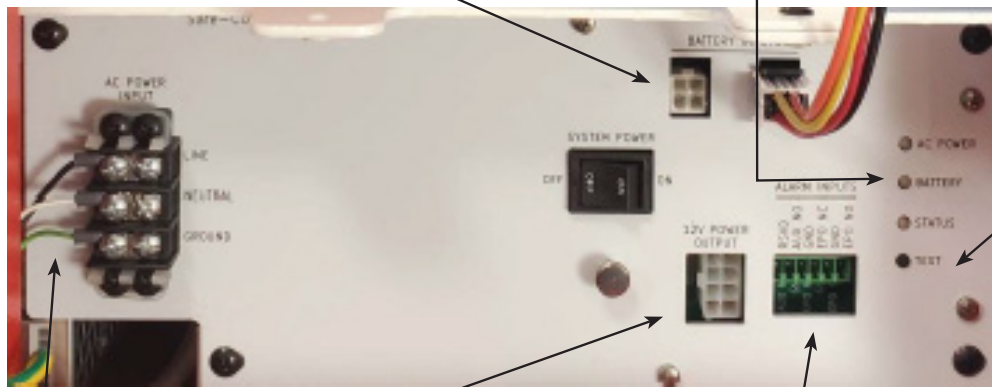
1. AC on, battery charging/balancing.
  2. AC on, battery charged.
  3. AC off, battery powered.
  4. AC on, charger failure (not connected.)
  5. AC off, low battery voltage:
    - a. Slow red/green
  6. External AUX alarm active.
  7. External EPO engaged.
  8. Battery over current.
  9. Battery error: fast flashing  
Battery and Status LEDs indicate blown fuse or cell out of range.
  10. AC on, battery charger fail, battery uncharged
- Grey Circle indicates LED off
  - Dashed Circle indicates flashing LED
  - White Dotted Circle indicates LED may flash red or green depending on current state when alarm occurred.

## Diagram

Battery connection ports for 1 battery pack (BBU-1000) or 2 packs (BBU-2000). Disconnect cable to test low battery alarm.

Indicator LEDs display the status and alarms of the BBU.

Charger alarm test: press to generate charger fail alarm. Press again to reset.



120 VAC input.  
Max 2 amp

DC and alarm output  
to BDA. Two meter cable  
provided. Max output:  
10 amps @ 12VDC

EPO and AUX alarm inputs  
(both require external normally  
open switch).

The information enclosed is believed to be accurate. Changes may be made to improve the availability or the performance of the product.

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