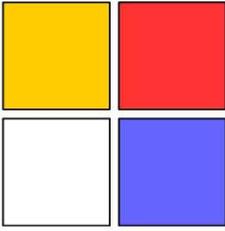


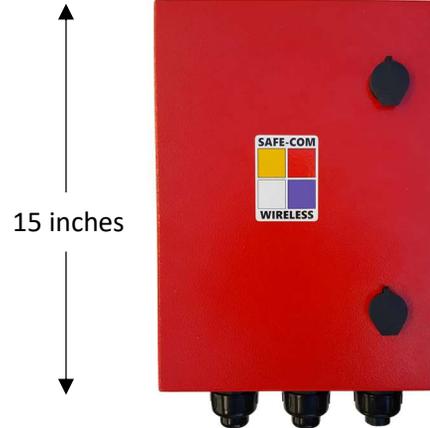
SAFE-COM



WIRELESS

Safe-Com DASAssure™ Public Safety Mission-Critical Systems **SAFE-BBU: Battery Back-Up / UPS** 12 and 24 Hour

- Efficient, Compact Lithium Battery UPS System
- Integrated AC Power Supply
- Smooth Transition from AC power to Battery power
- Alarm Outputs
 - AC Power Loss
 - Battery Level Low
 - Battery Charge Circuit Fail
 - Auxiliary Alarm
- Master External Power-off Switch - EPO
- Small Size NEMA : 15 x 12 x 6.75 in. (for 12 or 24 hour)

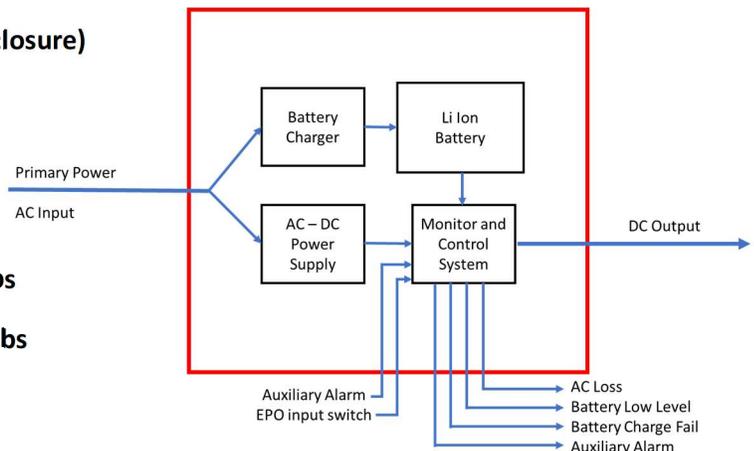


Safe-Com's *DASAssure™* series product line includes mission critical DC power battery backup systems. The SAFE series of battery backup units delivers the high reliability required for mission critical applications such as Distributed Antenna Systems (DAS) and critical computing networks. Lithium Iron Phosphate (LiFePo4) batteries provide a compact and low weight energy storage system. There is no out-gassing so a NEMA 4 enclosure can be used. They have very low self-discharge, no memory effect, outstanding natural safety due to the chemistry and a clear advantage over legacy lead-acid batteries in charge-discharge cycles. And it's environmentally friendly to boot. The system monitors and prevents over charge and over-discharge of the batteries and has over current protection. Battery cell balancing circuitry is included which extends life of the battery and maximizes its capacity. Because of these clear advantages, Li-Fe-Po4 is the battery of choice for critical backup power applications. The Safe-Com Battery system follows the product lines modular design philosophy. Battery pack modules, 1000 watt-hours each, can be added to configure the watt-hours required for the job. The unit is packaged in a NEMA enclosure (15 x 12 inches wall print size for either the 12 or 24 Hour unit) and provides NFPA alarm outputs needed to know the health and status of the battery system. This assures reliable operation and long-term performance of the Safe-Com *DASAssure™* Battery Backup UPS System. An Auxiliary alarm input is provided to connect room door sensors or a motion detectors into the alarm annunciator. Also an Emergency Power Off (EPO) function allows for one button BDA disabling.

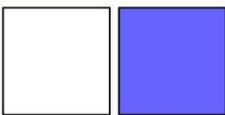
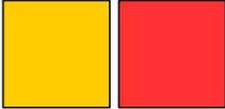
- **Model SAFE-BBU-1000: 120VAC input; Output: 9 - 12VDC, 12 Hour ; weight = 32lbs**
- **Model SAFE-BBU-2000: 120VAC input; Output 9 - 12VDC, 24 hour; weight = 44lbs**
- **Alarm outputs: Active Low: 0 to 5V (sent to BDA via 2 meter cable)**
- **Control inputs: a) Aux alarm, b) EPO (contact closure)**
- **NEMA 4 Enclosure**

Enclosure Size:

- 15 x 12 x 6.7 inches
- NEMA weight with 1 battery pack: 32 lbs
- NEMA weight with 2 battery packs: 44 lbs



SAFE-COM



WIRELESS

Safe-Com DASassure™
Public Safety Mission-Critical Systems
Battery Back-Up / UPS
12 and 24 Hour



Internal view with one battery pack installed.

The BBU-1000 (with one battery pack) will cover most 12 hour requirements. The BBU-2000 will cover all 24 hour requirements.

Batteries are shipped under separate cover and need to be installed on shelf as shown.

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

120-240 VAC input.
Max 2 amp



Indicator LEDs display the status and alarms of the BBU.

Charger Alarm Test: Press to generate charger fail alarm. Press again to reset.

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 – default configuration).

LED Indicators

AC POWER	●	●	●	●	●	○	○
BATTERY	●	○	●	●	●	○	●
STATUS	●	●	●	●	●	●	●
STATE	1	2	3	4	5	6	7 8

1. AC on, battery charging
2. AC on, battery charged
3. AC off, battery powered
4. AC on, charger failure
5. AC off, low battery voltage
6. External AUX alarm active
7. External EPO engaged
8. Battery over-current

Dashed Circle Indicates flashing LED.
A white dotted circle Indicates the LED may flash red or green depending on state it was in when the alarm occurred.