

BBS BATTERY BACKUP SYSTEM FOR LED TRAFFIC SIGNALS



- 1000 watts true sine wave power
- Power factor corrected charger
- 3 state temperature compensating charger
- All digital control
- Transfer Switch Internal or External
- Less than 10 ms transfer time
- Maintenance bypass switch
- Event Counter, Event Timer
- Battery Capacity Meter
- RS-232 Interface
- Wide temperature range (-37C to 74C)
- Low battery shutdown protection
- CALTRANS Compliant (JULY 2004)
- Lightning/Surge rated to ANSI-C62.41 Level B2

Overall System Features

- Integrated Inverter/charger system, designed for seamless operation together
- 1000 watts true sine wave inverter w/less than 2% distortion and peak efficiency is greater than 89%
- External alarm relays for remote monitoring
 - On battery -energizes when utilizing backup power
 - Low battery -energizes when batteries reach 40% remaining capacity
 - On time -energizes when two hours of backup have occurred
- Low battery shutdown protection
- LED display for all parameters
 - BBS status: Charge mode or BBS mode
 - Event counter
 - Accumulated Event time External alarm relay state
 - Battery Capacity Meter
 - Battery voltage indicator
- Internal or External transfer switch option
- External maintenance bypass switch
- Front panel multi-meter test points for battery voltage measurements

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BBS charger features:

Power factor corrected, 3 state battery charger
Temperature compensation
Over temperature protection for batteries (50C) halts all charging
Configurable battery parameters via RS-232

BBS Transfer Switch Features

Microprocessor controlled operation allows multi-cycle voltage calculation while maintaining a failure detect time of less than 500 microseconds
Power conditioning maintains optimal utility voltage levels when slight variance occur
Relay transfer time less than 10ms, optional relay less than 5ms

Testing and certifications

- Manufactured in accordance with ISO 9000/TL 9000 quality systems
- Computerized calibration and testing of each system
- CALTRANS compliant (JULY 2004)
- Lighting/Surge rated to ANSI-C62.41 Level B2
- FCC compliant to Part 15 Class A
- Totally integrated system with a 20 year MTBF

Data collection, monitoring, parameter changes via RS-232 interface



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