BATTERY BACKUP SYSTEM
FOR LED TRAFFIC SIGNALS

- 1000 watts true sinewave 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

Exeltech BBS Features

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 multimeter test points for battery voltage measurements
- 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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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 then 500 microseconds
- Power conditioning maintains optimal utility voltage levels when slight variance occur
- Relay transfer time less than 10ms, optional relay less then 5ms