

Black Start Controller

RECOGNISED AS LEADERS IN STANDBY POWER SOLUTIONS





AC Emergency Lighting Central Battery Systems (Inverters)

DC Emergency Lighting Central Battery Systems

AC Uninterruptible Power Supply (UPS) Inverter Systems

Constant Voltage Chargers

Telecommunications Battery & Charger Systems

Standby Power Systems

Self-contained Emergency Lighting Fittings

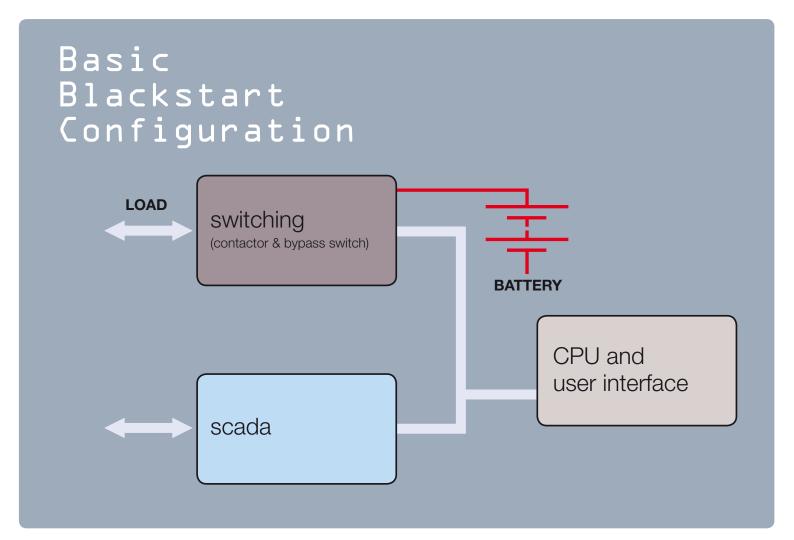
Installation, Commissioning, Service and Maintenance.

Main Functions

- Disconnects the battery to protect from prolonged discharge that might prevent safe substation operation
- Provides local Indication of DC system status
- Reconnects the battery upon supply return
- Allows timely & orderly start-up following a supply failure
- Allows monitoring of the battery and controller by the SCADA system
- Allows local manual control
- · Options of retrofit (add on) or incorporated within new chargers

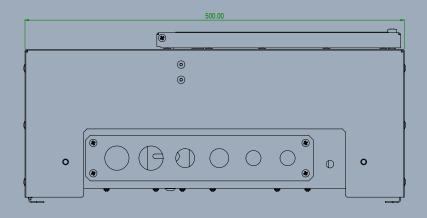
Being microprocessor based it also allows:

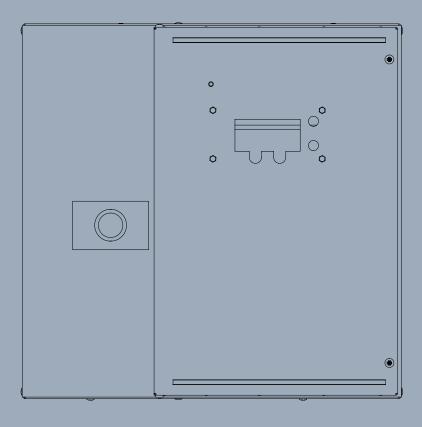
- Self checking
- History log recording
- Custom messages
- Custom Language





Dimensional Drawings







Standard Specification

Input Voltage

24/30/48/110v +/- 25% DC

Rated Current

Up to 200A

Standards Approvals

NGTS 3.24.15 EN 55022 Class A EN 61000 EN 60255-5

SCADA Interface

Opto isolated inputs for: Remote Trip Remote Close Supply Fail

Volt free Indication contact: Closed main contact Open main contact

Volt free alarm contact: Bypass Disconnect in progress Alarm

4-20mA analogue: Battery voltage (offset zero)

Consumption

7W approximately depending upon indications and relay status (all relays are fail safe)

Component Rating

All components are designed and rated for continuous operation with life expectancy typically 35 years(not including memory battery).

Cooling

Air natural convection

Temperature Range

Operating: -10°C to 35°C

Storage/transportation:
-20°C to 65°C
(NB: Higher operational temperatures are possible. Refer to manufacturer for details).

Instrumentation

Single 16 character backlit LCD with soft keys

Indicators & Alarms FUNCTIONS LED COLOUR

DC on Green Fault Red

Fuses

Electronics protection fuse for main DC supply to monitoring.

Termination

M8 stud terminals for the main switched DC.
Disconnection terminals for all control signals
Bottom mounted connections

Optional Extras

Voltage monitoring relays for individual circuit monitoring up to a maximum of 9 circuits (110v VT supplies)

Cubicles

Fabricated from minimum 1.2mm thick zinc coated mild sheet steel of folded construction to provide maximum strength and rigidity.

Paint Finish

Standard Finish is powder coat traffic yellow shade 381c631 semi gloss to BS4800, other finishes are available upon request at extra cost.

Cubicle Access

Wall mounting – via removable covers and left hand hinged lockable doors.

Cable Access

Cable gland plates in both top and bottom.

Cubicle Ingress Protection

To EN60529: IP32 code.

CUBICLE SIZE BS
HEIGHT (mm) 494
WIDTH (mm) 500
DEPTH (mm) 223.80

Additional Products

Details are also available on the following range of products & services.

AC Emergency Lighting Central Battery Systems (Inverters) | DC Emergency Lighting Central Battery Systems | AC Uninterruptible Power Supply (UPS) Inverter Systems | Constant Voltage Chargers | Telecommunications Battery & Charger Systems | Standby Power Systems | Self-contained Emergency Lighting Fittings | Installation, Commissioning, Service and Maintenance.

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