



# Take Charge of Your Battery System with Open Circuit/Open Strap Detection



## Battery Voltage Monitoring and Ground Fault Detection

- Adjustable alarm threshold setpoints
- High/Low battery voltage alarms
- +/- Ground fault detection/alarm
- High accuracy  $\pm 0.2$  VDC
- Optional Last Gasp Alarm Feature (consult factory) **NEW!**

## Corrosion and Open Cell Detection

- Optional predictive corrosion detection alarm
- Open cell alarm

## Open Circuit/Open Strap Detection **NEW!**

- Optional Open Circuit/Open Strap detection alarm
- Meets the Requirements of TPL-001-5

## Remote Monitoring and Reporting

- Serial DNP 3.0 / Modbus / RS485:  
2-wire standard, 4-wire optional
- 4 dry contact alarm outputs
- Analog current outputs (standard 4 to 20 mA)

## Ground Fault Locator

- Optional handheld ground fault detector

## New Advanced Nameplate Interface Features

- New accessible front panel setup menu
- Simplified calibration, setup, and alarm setpoint change functionality
- LED display identifying alarm conditions
- Audible alarm



## Portable and Self-Contained

- Lightweight rugged case for field use
- Powered off the DC battery system
- Real-time field trouble shooting

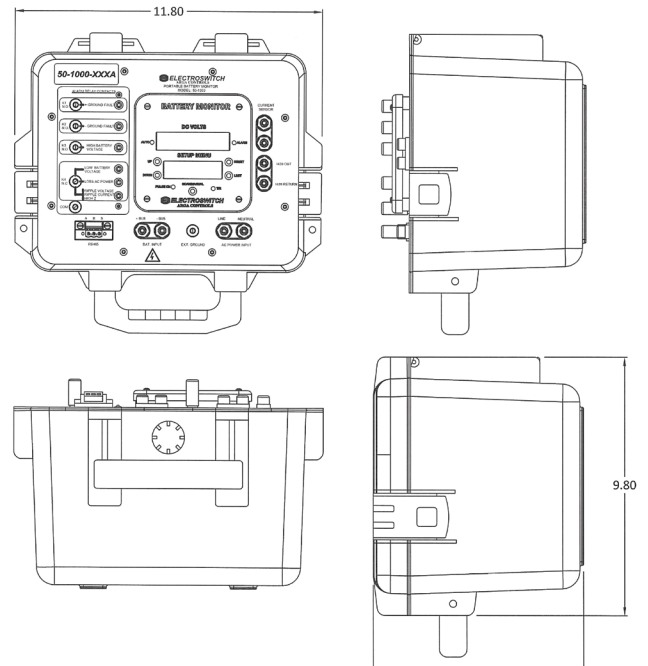




### Specifications

- Battery Input:** 50–180 VDC, 3VA (for 125 V battery)  
100–360 VDC, 5VA (for 250 V battery)  
36–72 VDC, 3VA (for 48 V battery)
- Ground Resistors:** 30.83 K $\Omega$   $\pm$  1% from each bus to ground (for 125 V battery)  
60.50 K $\Omega$   $\pm$  1% from each bus to ground (for 250 V battery)  
15 K $\Omega$   $\pm$  1% from each bus to ground (for 48 V battery)
- Voltage Indication:** 0 to  $\pm$  199.9 VDC in 0.6" bright red LED digits and decimal point. Accuracy is  $\pm$  0.2 VDC (125 VDC model).
- Display Ranges:** A. Battery Voltage (BAT) C. – Bus to Ground (– to GND)  
B. + Bus to Ground (+ to GND) D. Ground Fault Voltage (Fault)
- Scanning:** In Manual Mode, select measurement by briefly pushing the Scan/Manual button. In Scan Mode, display cycles through all six measurements, plus time delay and AC charger phase. Change mode by holding the Scan/Manual button.
- Limit Setting:** Display limit setting by pushing Limit button on front panel when range light is on.
- Alarms:** Set alarm levels using the configuration menu (see Product User Manual for details). Alarm relays are Form C contacts;  
(Not Scanned)  
Relay 1: + Ground Fault  
Relay 2: – Ground Fault  
Relay 3: High Battery Voltage  
Relay 4: Low Battery Voltage, Open Battery, Loss of AC to Charger
- Alarm Delay:** Configurable from 1 to 60 seconds
- Reset:** Panel pushbutton will reset an alarm.
- Contact Rating:** 2 A at 120 VAC or 28 VDC, 25 mA at 150 VDC
- Voltages:** 24 VDC, 48 VDC, 125 VDC, 250 VDC
- Operating Temperature:** –4°F to 131°F (–20°C to 55°C)
- Compliance:** ANSI (IEEE) C37.90.1 [Surge Withstand], IEC 61000-4-3 [EMC]
- Corrosion Detection Option:** Provides "predictive change monitoring" to initiate a maintenance alarm notification before a service interruption occurs, requires Current Sensor.
- Open Circuit/Open Strap Detection Option:** Provides critical substation monitoring and alarm notification for potential cascading events, requires Current Sensor.
- Standard Outputs:** Digital: DNP3.0/Modbus  
Analog: 4–20 mA
- Standard Part Numbers:** 50-1000-125A for 125 VDC installations  
50-1000-250A for 250 VDC installations  
50-1000-48A for 48 VDC installations

### Dimensions



### Other Arga Products



Panel Mount Battery Monitors



Voltage, Current, and Frequency Transducers



Single-Function Digital Meters

### Optional Ground Fault Circuit Locator

- Operation:** Handheld unit with ON/OFF and volume adjust switch
- Indication:** LED and audible indicators for detected ground faults

