







PREDICTIVE. PROACTIVE.
PREVENTIVE.™

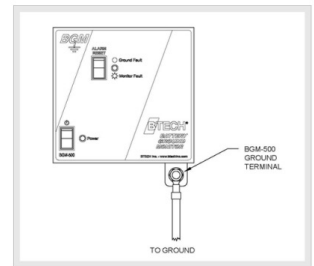
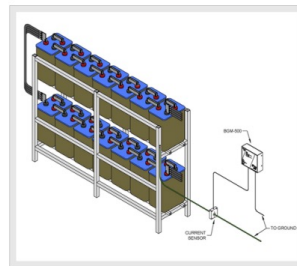
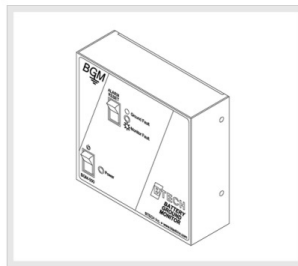
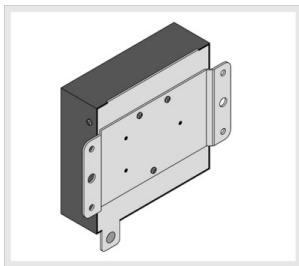
IMPROVE DC PLANT SAFETY WITH THE BGM-500

Battery system ground faults are dangerous and potentially catastrophic DC plant conditions leading to electric shock, overheating, fire, decreased system life and battery capacity, and catastrophic failure. BTECH's BGM-500 system utilizes a precise, specialized current transducer to detect positive and negative current leakages. When the BGM-500 detects current above a configurable threshold value, it indicates a ground fault alarm that latches until cleared manually or clears when alarm conditions are corrected and ground current returns below the threshold value.



WHY THE BGM-500 FROM BTECH?

-  Detects Dangerous Ground Fault Currents, Preventing Shock & Fire Hazards
-  Configure Alarm Threshold & Behavior to Suit Your Facility
-  Current Transducer Direction Won't Affect BGM Functionality
-  Identifies Conditions that Severely Damage System & Battery Life



SYSTEM SPECIFICATIONS

Power Requirements

- Power Inputs:
 - AC Adapter (100 - 240 VAC, 0.5 A, 50/60 Hz)
 - DC Input (12 VDC, Maximum 5 W draw)

Measurement Capability

- Measurement Range ± 500 mA DC
- Measurement Accuracy $\pm 1.0\%$ Full Scale

Communications

- USB (Type B)
- Ethernet (RJ45 TCP/IP)
- 1 NC/NO alarm relay
- Modbus TCP
- SNMP v1

The alarm output relay changes to "alarm state" (normally closed open, normally open closed) when an active ground fault alarm or hardware fault is detected or the BGM-500 loses power.

Environmental

- Operating Temperature 5-40°C
- Operating Humidity
 - 0-80% (non-condensing) for 0-30°C
 - 0-50% (non-condensing) for 31-40°C
- Operating Altitude 0-2000 meters

BGM-500 Mounting

- The BGM-500 ships with a steel mounting bracket that can be mounted either horizontally or vertically to the back.
- The BGM-500 can be mounted:
 - To the cabinet or rack
 - Wall-mounted inside a NEMA 1 enclosure
 - DIN rail-mounted

Modbus Capabilities

- Both ground fault and equipment alarms are available via Modbus TCP
- Reset ground fault alarm
- Monitor real-time ground fault current

Dimensions

- BGM-500
 - H 5.05" x W 4.65" x D 1.43"
(128.3 mm x 118.1 mm x 36.3 mm)
 - Largest dimensions with mounting bracket are:
H 5.05" x W 5.79" x D 1.43"
(128.3 mm x 147 mm x 36.3 mm)
- Current Transducer
 - Transducer Size – H 3.5" x W 2.5" x D 1.24"
(88.9 mm x 63.5 mm x 31.75 mm)
 - Window Size – .88" (22.4mm)

Specification and Code Compliance

The BGM-500 is uniquely suited to comply with engineering and code enforcement requirements for a DC Ground Fault detection system, including:

- UFGS 26 33 53 Static Uninterruptible Power Supply (UPS)
- International Fire Code

FCC & ETL Approved



QUESTIONS OR INQUIRIES?

Log into the Online Battery Validation Manager portal or contact us at sales@btechinc.com or **973-983-1120** to speak with one of our battery monitoring innovation experts.

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BTECH is a leading global provider of sustainable US-based manufacturing and battery monitoring solutions that ensures batteries perform as intended for safety, reliability, and lifespan. Through battery innovation expertise, proactive management services, and leading analytic and predictive technologies, BTECH helps companies deploying reserve power or battery systems eliminate the risk of failure in mission-critical buildings and applications.



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