

Battery Presence Monitor, 3A BPM 300-F0 Series



- Rugged industrial quality
- Conduction/convection cooled - no fan
- Fully protected
- Field proven design

The BPM 300-F0 is a compact, industrial quality battery presence monitor which indicates whether the battery is connected to a back-up system. This unit is designed for a small battery back-up system with 3A max battery current. It monitors whether the low impedance of the battery is connected to the battery input terminal. If the battery is removed, the contacts are corroded, the battery fuse is blown or the battery starts drying up, the unit generates an alarm signal by Form B relay contact. The BPM 300-F0 is connected between the battery and the battery terminal of the system. Low component count and the exclusive use of components with established reliability contribute to a high MTBF. The unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

Input Voltage

21-130Vdc operating range
Suitable for systems with 24V,
36V, 48V, 72V, 96V, 110V
and 125Vdc as nominal input

Input Protection

Lower voltage than the specified
minimum input will not damage
the unit.

Isolation

1000Vdc input/output to chassis
The input and output returns are
common

Standards

Designed to meet EN60950-1
and corresponding standards

EMI

EN55022 Class A with margins

Monitoring Frequency

75kHz \pm 5kHz
Custom versions are available

Output Voltage/Current

Same as input voltage/3A

Efficiency

98% minimum at full load

Operating Temperature Range

-25°C to 55°C for full specification
Wider range available as option

Cooling

Conduction to customer heat-sink
or chassis and natural convection

Environmental Protection

Basic ruggedizing
Conformal coating

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 - 95% non-condensing

MTBF

160,000h at 45°C
Demonstrated MTBF is
significantly higher

Indicators

None

Control Input

None

Alarm Output

Form B contacts
Fail open

Package / Dimensions

F0: 86 x 48 x 155mm
(3.4" x 1.9" x 6.1")
Mounting holes are clear

Weight

0.55kg (1.2 lbs)

Connections

6-pole barrier type terminal block
with 3/8" spacing

RoHS Compliance

Compliant

Warranty

Two years subject to application
within good engineering practice

Terminal Block Pin-out

ALARM		Battery		To System	
F/O	COM	+	-	-	+
1	2	3	4	5	6



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