

## 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 continuously monitors whether 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. It is self-powering. 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

1500Vdc 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

**The specifications on this data sheet are generic and are subject to change. Enhancements to these specifications can be provided upon request.**

*OEM of industrial & railway quality AC/DC power supplies and battery chargers, DC/DC converters, DC-AC sine-wave inverters, phase and frequency converters, DC-output UPS systems and complete power systems in 19" & 23" racks since 1982. Custom or standard. ABSOPULSE is a BABT-approved facility.*



#### ABSOPULSE ELECTRONICS LTD

110 Walgreen Road, Ottawa, Ontario. K0A 1L0. CANADA  
Tel: +1-613-836-3511 | Fax: +1-613-836-7488

E-mail: [absopulse@absopulse.com](mailto:absopulse@absopulse.com) | <http://www.absopulse.com>