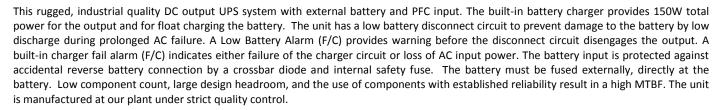
150W, Universal Input UPS/Battery Charger with PFC input BCP 152-F2L Series (previously BCP 151-F2L)

- Electronic Power Factor Correction (PFC)
- Rugged, industrial quality
- Field-proven design
- Conduction/convection cooled no fan
- Fully protected



# **SPECIFICATIONS**

#### Input Voltage

Mains Input:

90Vac to 264Vac universal (47 -63Hz) Power Factor is better than 0.97 at full load for the entire input range. Meets EN61000-3-2 Battery Input: 12V, 24V or 48V battery

#### **Input Protection**

AC Input
Inrush current limiting
Varistor
Internal safety fuse
Lower voltage than the specified
minimum input will not damage the
unit

# **Battery Input:**

Internal safety fuse and crossbar diode Low Battery Disconnect circuit

<u>Warning</u>: Battery must be fused externally, directly at the battery

#### Input Isolation

2250VDC input to chassis 4300VDC input to output, 8mm spacing 500VDC output to chassis

## Standards

Meets EN 60950 and corresponding UL and CSA standards

#### EMI

EN 55032 Class A with margins

# **Switching Frequency**

50-150KHz Input section (dependent on the load) 55 KHz ±3KHz for the output section

# Output Voltages/Currents

13.8V float voltage (12V battery) or 27.6V float voltage (24V battery) or 55.2V float voltage (48V battery) The output is isolated, either terminal can be grounded Other outputs available on request

#### **Output Separation Diode**

Installed internally

#### Line/Load Regulation

±1.5% combined from no load to full load including built in separation diode

## **Output Ripple/Noise**

Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHz BW)

# Overload Protection (without battery)

Rectangular current limiting with hiccup mode short circuit protection Thermal shut-down with automatic recovery in case of insufficient cooling Internal battery safety fuse on battery In the case of an accidental shorting of the output, the external battery fuse shall blow.

# **Output Overvoltage Protection**

Double regulator loop, stable and independent of the main feedback loop

# Efficiency

Typically 80 - 90% at full load depending on output

## **Operating Temperature**

0°C to +50°C for full specification Extended temperature range available on request

## **Battery Temp. Compensation**

Not included Available as an option

#### Temperature Drift

0.03% per °C over operating temperature range

## Cooling

Conduction to customer heatsink or chassis and natural convection

## **Environmental Protection**

Basic ruggedizing Additional ruggedizing and conformal coating available

## Shock/Vibration

IEC 61373 Cat 1 A&B

# Humidity

5 - 95% non-condensing

#### MTBF

130,000h at 45°C Demonstrated MTBF is significantly higher

#### **Indicators**

Charger ON LED visible through the cooling slots

# **Control input**

None

# **Alarm Outputs**

Charger/AC fail alarm, Fail Close Low Battery Alarm, Fail Close with common return

#### Package/Dimensions (W x H x L)

F2L package 114 x 58 x 310mm (4.5" x 2.3" x 12.2") including terminal block and flanges Mounting holes are clear

## Weight

1.5kg (3.3 lbs)

## Connections

12-pole terminal block with 7.62mm spacing for all connections, including alarm

# **RoHS Compliance**

Fully compliant

#### Warranty

Two years subject to application within good engineering practice

Enhancements to these general specifications and customizing can be accommodated upon request. Specifications are subject to change.

Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Custom or standard. Absopulse is a BABT-approved facility.



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