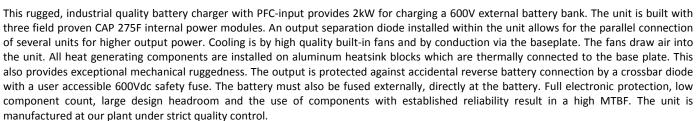
# 2000W, Industrial Quality Battery Charger with PFC-input BCP 2K-E/600-3U3 Series

- Electronic Power Factor Correction (PFC)
- Rugged, industrial quality
- Field-proven design
- Cooling by built in fans
- Fully protected



**SPECIFICATIONS** 



#### Input Voltage

240Vac nominal, 47... 63Hz,single phase 190-264Vac operating range Input Current: 13Arms max.
An optional 90–264Vac operating range, 47... 63Hz, input current: 27Arms max. at 90V is also available Power Factor is better than 0.97 at full load for the entire input range.
Meets EN61000-3-2 and EN61000-3-12 Consult factory for other voltages

#### **Input Protection**

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

# Input Isolation

2250Vdc input to chassis 4300Vdc input to output, 8mm spacing 1500Vdc output to chassis

#### Standards

Meets EN60950-1 and corresponding UL and CSA standards

#### EMI

EN55032 Class A with margins

# **Switching Frequency**

50 - 150kHz load dependent

# **Output Voltages/Currents**

600V/3.3A
2000W continuous
Adjustable 520-630V by trimming
potentiometers accessible through
holes on the top cover.
The output is isolated, either
terminal can be grounded
Consult factory for other voltages

# **Output Separation Diode**

Installed internally

# **Line/Load Regulation**

±1% combined from no load to full load including built in separation diode

# **Dynamic Response**

Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time

#### **Output Ripple/Noise**

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

# **Overload Protection**

Rectangular current limiting with short circuit protection.
Thermal shut-down with automatic recovery in case of insufficient cooling
Crossbar diode with user accessible safety fuse (600Vdc fuse)

# Warning: Battery must be fused externally, directly at the battery

#### **Output Overvoltage Protection**

Second regulator loop, completely stable and independent of main regulator loop

#### Efficiency

Min 80% at full load

# **Operating Temperature**

0°C to +50°C for full specification Wider temperature ranges available on request

#### **Battery Temp. Compensation**

None

Available as an option

#### Temperature Drift

0.03% per  $^{\circ}$ C over operating temperature range

#### Cooling

By built in high quality fans

# **Environmental Protection**

Ruggedizing Conformal coating

#### Shock/Vibration

IEC 61373 Cat 1 A&B

# Humidity

5 - 95% non-condensing

# MTBF

80,000h at 45°C Demonstrated MTBF is significantly higher

#### Indicators

Charger "ON" LED on each internal module visible through the rear cooling slots

#### **Alarm Outputs**

Not installed on standard version

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

3U3: 132 x 187 x 407mm (5.2" x 7.4" x 16") Mounting holes are clear

#### Weight

Approx. 6.5 kg (14 lb.)

#### Connections

Input: Terminal block Output: Terminal Block

# **RoHS Compliance**

Compliant

# Warranty

Two years subject to application within good engineering practice Contamination related failures not covered.

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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