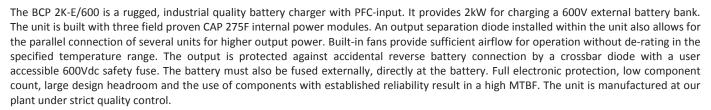
# 2000W, Industrial Quality Battery Charger with PFC-input **BCP 2K-E/600 Series**

- 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

Meets EN60950 and corresponding UL and CSA standards

EN55022 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**

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 (W x H x D)

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

Approx 6.5 kg (14 lbs)

#### Connections

Input: Terminal block Output: Terminal Block

# **RoHS Compliance**

Fully compliant

#### Warrantv

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

