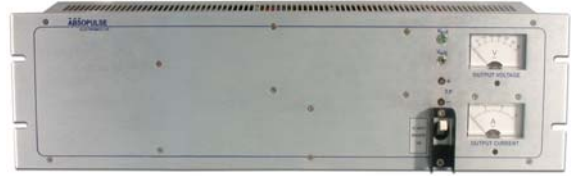


300W, Rack-mount Power Supply/Charger BCH 65-3U/19M Series

- 19" Rack-mounted, 3U
- Rugged, industrial quality
- Convection cooled - no fan
- Fully protected
- Field-proven design



This rugged, industrial quality, single output charger uses field-proven topology to generate 300W output power. It is a mature design with a track record in hundreds of applications. The unit consists of an internal HBC 65 power supply module. Standard single output float voltage configurations include 13.8Vdc, 27.6Vdc, 55.2Vdc or 138Vdc. This series has large design headroom and it is rated for full operation over the specified temperature range. Cooling is by convection and conduction to the 3U x 19" front-panel. The unit features an output separation diode, front panel adjustment, output voltage and current meters and input switch. Low component count and the use of components with established reliability result in a high MTBF. This power supply/charger is manufactured at our plant under strict quality control.

SPECIFICATIONS

Input Voltage

115V/230Vac +/-15%
 Selectable by internal jumper,
 47-63Hz
 Max. input current: 5.6Arms
 at 95Vrms
 AC line: Input switch on front panel

Input Protection

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

Isolation

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

Standards

Designed to meet EN 60950 and
 corresponding UL & CSA standards

EMI

EN55022 Class A with margins

Switching Frequency

55kHz ±3kHz

Output Voltage/Current

Configurations available for
 13.8V/21A, 27.6V/11A
 55.2V/5V or 138V/2A
 Please consult factory if different
 voltage required
 Output is floating, either terminal
 can be grounded
 Output is adjustable ±5% by trimpot
 on front panel

Output Separation Diode

Installed internally

Line/Load Regulation

± 1.5% combined from zero load to
 full load including built-in output
 separation diode

Dynamic Response

Max 5% voltage deviation for 10%
 to 50% load step, with better than
 1msec recovery time (without
 battery)

Output Ripple / Noise

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

Output Overload Protection

Rectangular current limiting with
 short-circuit protection (without
 battery)
 Thermal shutdown in case of
 insufficient cooling (self re-setting)
**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

Typically 80% at full load

Operating Temperature Range

0°C to +50°C for full specification
 Wider temperature ranges are
 available as an option

Temperature Drift

0.03% per deg. C over operating
 temperature range

Cooling

Natural air convection

Environmental Protection

Basic ruggedizing.
 Heavy ruggedizing and conformal
 coating available as an option

MTBF

150,000h at 45°C
 Demonstrated MTBF is
 significantly higher

Indicators (on Front Panel)

Output voltage and current
 meters (analog)

Control Input

None

Alarm Outputs

None on standard version
 Output fail alarm available as an
 option

Package/Dimensions (HxWxD)

3U x 19" x 3"

Weight

3.0 kg (6.6 lbs)

Connections

12-pole barrier-type terminal
 block, 3/8" spacing

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 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.



ABOPULSE ELECTRONICS LTD
 110 Walgreen Road
 Ottawa, Ontario. K0A 1L0. CANADA
 Tel: (613) 836-3511 Fax: (613) 836-7488
 E-mail: absopulse@absopulse.com
www.absopulse.com