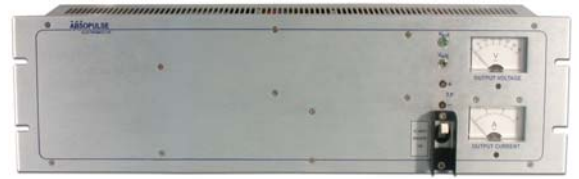


300W, Rack-mount Power Supply/Charger

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



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