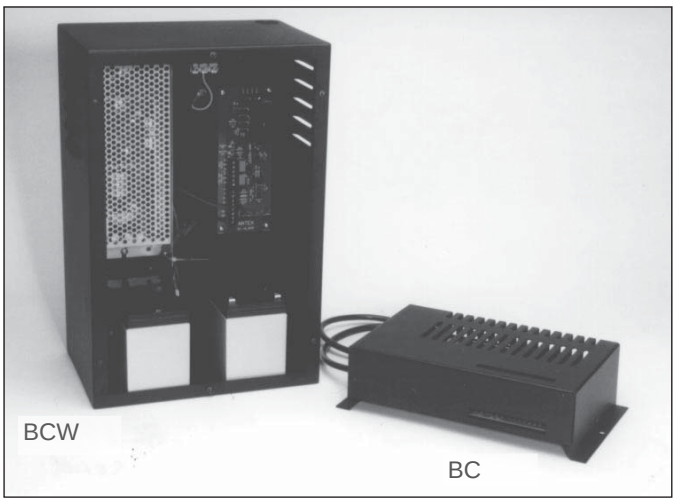
Pacific Automation
Reliable Solutions From The World's Latest Technology

BC & BCW SERIES

12V & 24V Battery Chargers: 50 - 150 Watts



Features

- Wide AC input 90 - 264 VAC
- High efficiency, switched mode design.
- Fully isolated output
- Power fail and battery fail alarms
- DC ok and battery ok LEDs
- Isolation diode
- Battery fused protected
- Overload and OVP protection of rectifier module
- Wall mount enclosure with battery "BCW"
- Low volt disconnect - option

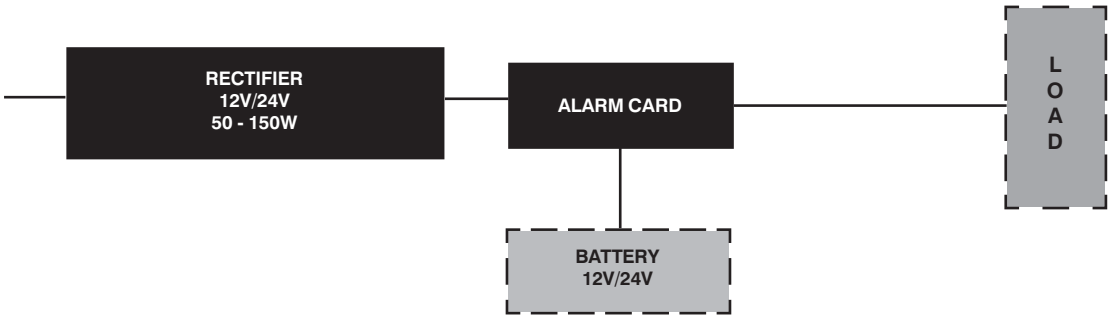
The BC series battery chargers are designed for powering DC loads with battery back-up and are available in 12V and 24V systems from 50 - 150 watts.
Amtex can provide a mechanical assembly to your specifications, or our standard wall mount assembly designed to hold batteries. The rectifier modules used are of a high quality switched mode design, incorporatimg a high level of surface mount components providing long term reliability and performance.

Battery Space:
2 x 7AH Batteries
2 x 12AH Batteries

Specifications

INPUT VOLTAGE:	90 - 264 VAC wide input
FREQUENCY:	47 - 63Hz
EFFICIENCY:	Model dependant, typically 85%
OUTPUT VOLTAGE:	12V set to float voltage of 13.8V 24V set to float voltage of 27.6V
VOLTAGE ADJUSTMENT:	12V (13.5 to 16) 24V (27 to 31)
OUTPUT POWER:	Three power levels, 50, 100 and 150W
LINE REGULATION	<0.5% over input range
LOAD REGULATION:	< 0.8% 50 - 100% load step
RIPPLE & NOISE:	120 - 150mV pk-pk
TEMPERATURE DRIFT:	1% maximum over -10° to 50°C
PROTECTION:	• Rectifier short circuit protected • Rectifier OVP • Rectifier overload current limited • Battery fuse - 15A
ISOLATION:	Rectifier input - output 3000 VAC output - ground 500 VAC
SAFETY:	Designed to meet EN60950, AS3260
EMC:	EN55022 level A
COOLING:	Free air convection
HUMIDITY:	20 - 90% non-condensing
OPERATING TEMP:	10°C to +50°C
INDICATORS:	• Power Fail - LED • Battery Fail - LED
ALARMS:	• Power Fail (AC/Rectifier Fail) • Battery Fail Alarms provided by voltage free relay contacts
CONNECTIONS:	Screw terminal connections
DIMENSIONS:	BC series: 259 x 148 x 70mm 1~1.5Kg. BCW series: 248 x 166 x 361mm 3~5.0Kg.

BLOCK DIAGRAM



BC & BCW SERIES

12V & 24V Battery Chargers: 50 - 150 Watts

MODEL	Output V	Output A	System Float Voltage	Power W
BC50 - 12	12V	3.5A	13.8V	50W
BCW50 - 12	12V	3.5A	13.8V	50W
BC75 - 12	12V	5A	13.8V	75W
BCW75 - 12	12V	5A	13.8V	75W
BC100 - 12	12V	7.0A	13.8V	100W
BCW100 - 12	12V	7.0A	13.8V	100W
BC150 - 12	12V	10.5A	13.8V	150W
BCW150 - 12	12V	10.5A	13.8V	150W
BC75 - 24	24V	2.7A	27.6V	75W
BCW75 - 24	24V	2.7A	27.6V	75W
BC100 - 24	24V	3.6A	27.6V	100W
BCW100 - 24	24V	3.6A	27.6V	100W
BC150 - 24	24V	5.2A	27.6V	150W
BCW150 - 24	24V	5.2A	27.6V	150W

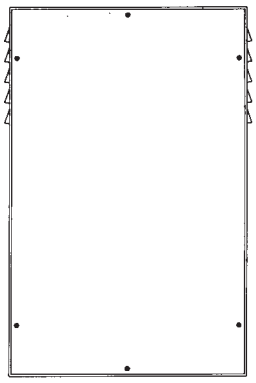
Notes:

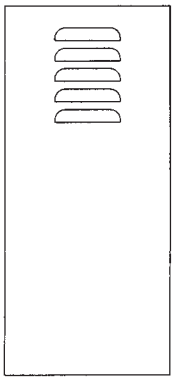
- BC models: Rectifier / charger and alarm card assembly.
- BCW models: Rectifier / charger and alarm card in wall mounting assembly, with battery compartment.

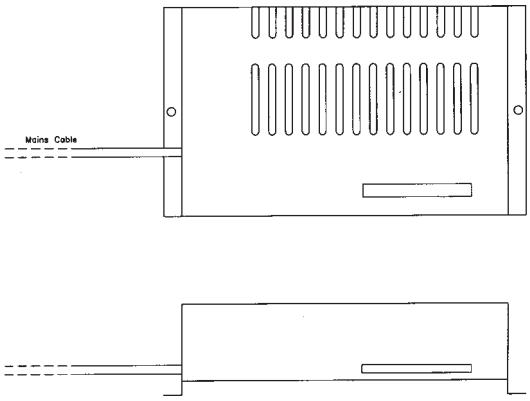
BCW WALL MOUNTING

Overall dimensions:
361 x 248 x 166mm
Mounting hole diameter:
6mm
Mounting hole pitch:
332 x 205mm

Cable entry is via 25mm holes locatedin the right hand rear corners of top and bottom





BC PANEL MOUNT UNIT

Overall dimensions: 259 x 70 x 148mm
Mounting hole diameter: 6mm
Mounting hole pitch: 247 mm