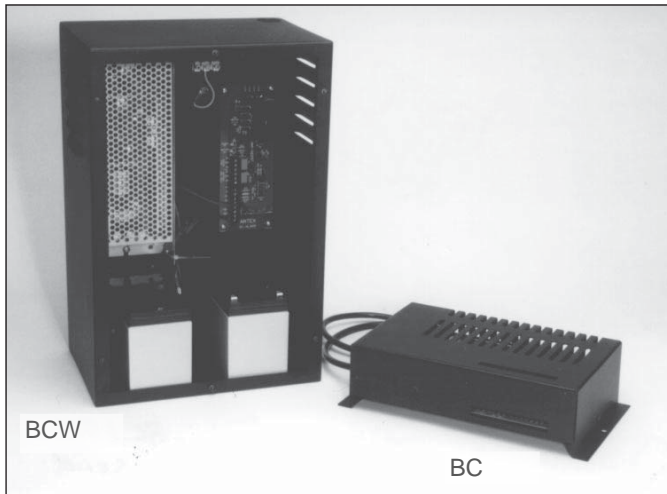


# BC & BCW SERIES

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.

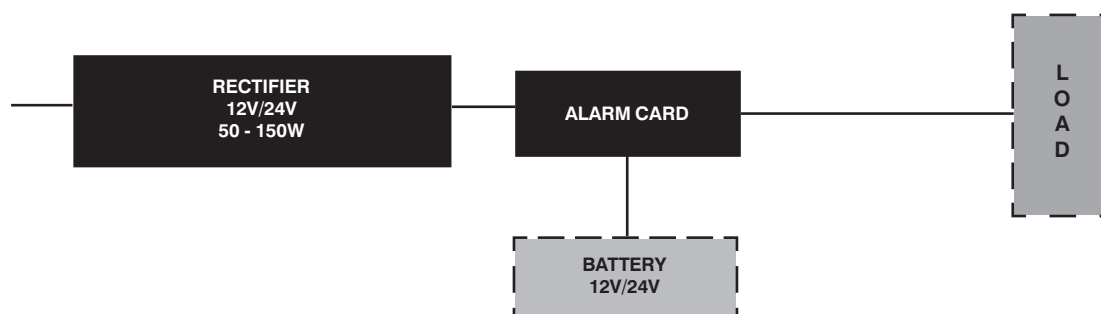
Amtex can provide a mechanical assembly to your specifications, or our standard wall mount assembly designed to hold batteries. The rectifier modules used are of a high quality switched mode design, incorporating a high level of surface mount components providing long term reliability and performance.

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

## Specifications

<b>INPUT VOLTAGE:</b>	90 - 264 VAC wide input
<b>FREQUENCY:</b>	47 - 63Hz
<b>EFFICIENCY:</b>	Model dependant, typically 85%
<b>OUTPUT VOLTAGE:</b>	12V set to float voltage of 13.8V 24V set to float voltage of 27.6V
<b>VOLTAGE ADJUSTMENT:</b>	12V (13.5 to 16) 24V (27 to 31)
<b>OUTPUT POWER:</b>	50 ~ 150 watts
<b>LINE REGULATION</b>	<0.5% over input range
<b>LOAD REGULATION:</b>	< 0.8% 50 - 100% load step
<b>RIPPLE &amp; NOISE:</b>	120 - 150mV pk-pk
<b>TEMPERATURE DRIFT:</b>	1% maximum over -10° to 50°C
<b>PROTECTION:</b>	<ul style="list-style-type: none"> <li>• Rectifier short circuit protected</li> <li>• Rectifier OVP</li> <li>• Rectifier overload current limited</li> <li>• Battery fuse - 15A</li> </ul>
<b>ISOLATION:</b>	Rectifier input - output 3000 VAC output - ground 500 VAC
<b>SAFETY:</b>	Designed to meet EN60950, AS3260
<b>EMC:</b>	EN55022 level A
<b>COOLING:</b>	Free air convection
<b>HUMIDITY:</b>	20 - 90% non-condensing
<b>OPERATING TEMP:</b>	-10°C to +50°C
<b>INDICATORS:</b>	<ul style="list-style-type: none"> <li>• Power Fail - LED</li> <li>• Battery Fail - LED</li> </ul>
<b>ALARMS:</b>	<ul style="list-style-type: none"> <li>• Power Fail (AC/Rectifier Fail)</li> <li>• Battery Fail</li> </ul> Alarms provided by voltage free relay contacts
<b>CONNECTIONS:</b>	Screw terminal connections
<b>DIMENSIONS:</b>	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		System Float Voltage	Power W
	V	A		
BC50 - 12 BCW50 - 12	12V 12V	3.5A 3.5A	13.8V 13.8V	50W 50W
BC75 - 12 BCW75 - 12	12V 12V	5A 5A	13.8V 13.8V	75W 75W
BC100 - 12 BCW100 - 12	12V 12V	7.0A 7.0A	13.8V 13.8V	100W 100W
BC150 - 12 BCW150 - 12	12V 12V	10.5A 10.5A	13.8V 13.8V	150W 150W
BC75 - 24 BCW75 - 24	24V 24V	2.7A 2.7A	27.6V 27.6V	75W 75W
BC100 - 24 BCW100 - 24	24V 24V	3.6A 3.6A	27.6V 27.6V	100W 100W
BC150 - 24 BCW150 - 24	24V 24V	5.4A 5.4A	27.6V 27.6V	150W 150W

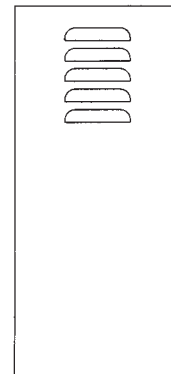
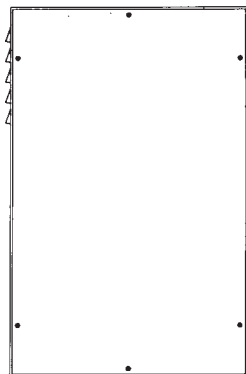
**Notes:**

- 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 located in 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

