

# BDC SERIES

## Battery Chargers: 50 - 150 Watts



### Features

- Auto ranging input 100~240VAC
- Power levels from 50~150 watts
- 12V and 24V models
- Harmonic current per EN61000-3-2
- Floating output, fully isolated
- EMC to EN55011-B
- Immunity to EN61000-4-2, -3, -4, -5, -6
- Convection cooled
- OVP and overload protection
- Vented Case package suitable for a wide range of industrial applications
- Customised enclosures on request
- LED for power out OK
- Battery protection - self re-setting 5A, 10A or 15A circuit breaker
- Separate load and battery terminals

### Specifications

<b>INPUT VOLTAGE:</b>	85 - 264VAC: BDC50 110/230VAC auto select for models BDC75 - BDC150
<b>HARMONICS:</b>	EN61000-3-2 for BDC75 - BDC150
<b>FREQUENCY:</b>	47 - 63Hz
<b>EFFICIENCY:</b>	Model dependent typically 65-80%
<b>OUTPUT POWER:</b>	50~150 watts
<b>OUTPUT VOLTAGE:</b>	12V & 24V models: refer to table
<b>OUTPUT V. ADJUSTMENT:</b>	Typically $\pm 5\%$ of nominal
<b>LINE REGULATION:</b>	Typically $\pm 0.4\%$ over input range
<b>LOAD REGULATION:</b>	Typically $\pm 0.6\%$ from no load to full load
<b>MINIMUM LOAD:</b>	Units will operate with zero load
<b>TEMP. CO-EFFICIENT:</b>	0.02% per °C
<b>OUTPUT NOISE:</b>	Typically 1% of nominal V out
<b>OVP:</b>	OVP will shut down unit, manual reset by AC line recycle
<b>OVERLOAD PROTECTION:</b>	Constant current limiting
<b>HOLD UP TIME:</b>	Typically 20ms at rated power and input
<b>START UP TIME:</b>	Typically 3 seconds
<b>PARALLEL OPERATION:</b>	No
<b>SERIES OPERATION:</b>	Yes
<b>OPERATING TEMP:</b>	-10°C to +50°C at full load. Derate from 50°C to 60°C
<b>COOLING:</b>	Convection cooled
<b>ISOLATION:</b>	Input - output 3000VAC Input - chassis 2000VAC Output - frame 500VAC
<b>SAFETY:</b>	Rectifier modules used, approved to IEC950, EN60950, UL1950, AS3260
<b>EMI/RFI:</b>	EN55011 - A
<b>CONNECTIONS:</b>	Mains input cord and plug. Output via terminal block
<b>DIMENSIONS:</b>	260 x 125 x 75mm
<b>WEIGHT:</b>	Model dependent 0.7 - 1.2 kg

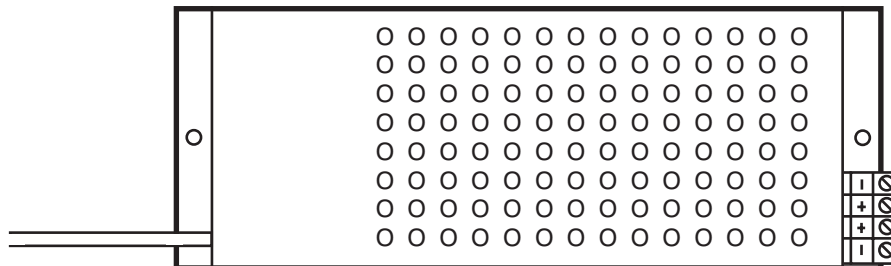


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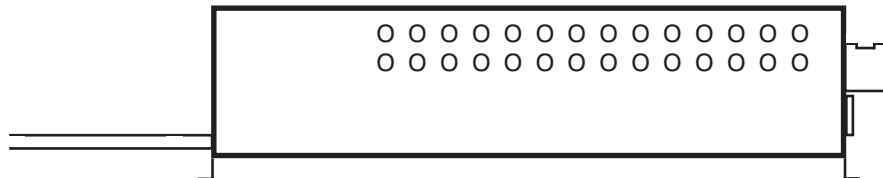
MODEL	Output		Battery Float Voltage	Power W
	V	A		
BDC50 - 12	12V	3.5A	13.8V	50W
BDC75 - 12	12V	5.0A	13.8V	75W
BDC100 - 12	12V	7.0A	13.8V	100W
BDC150 - 12	12V	10.5A	13.8V	150W
BDC75 - 24	24V	2.7A	27.6V	75W
BDC100 - 24	24V	3.6A	27.6V	100W
BDC150 - 24	24V	5.2A	27.6V	150W

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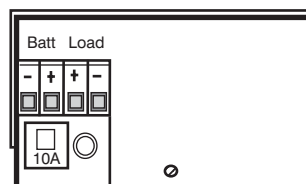


Top View

Overall dimensions: 259 x 75 x 125mm (excluding connectors)  
 Mounting hole diameter: 6mm  
 Mounting hole pitch: 246mm



Side View



End View