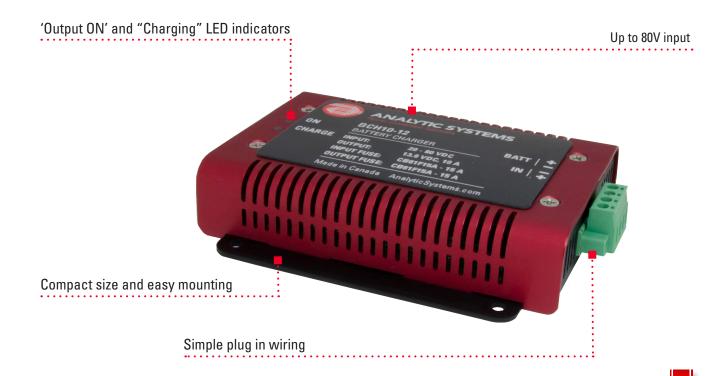




ver Conversion Solutions Power Conversion Solutions



BCH10 DC SOURCE BATTERY CHARGER

The BCH10 Step Down series of Battery Chargers supply up to 10 amps of charging current at 12, 24, 36 or 48 volts from any higher voltage between 20 and 80 volts DC for use in automotive, heavy equipment, marine, industrial, rail or alternative energy environments. The output voltage is configured to allow permanent connection to the battery.

All surface mount high frequency design offers higher reliability, higher efficiency (more than 91%), more power (up to 544 watts at 48 VDC Out) and minimum size.

The unit has reverse input protection, reverse battery connection protection, and output over-voltage protection and features spark free connection to the battery. Smart Ideal Diode output circuitry prevents any reverse current flowing from the battery back into the converter.



Available models

| Input (VDC |) | | | |
|------------|---------|---------|---------|---------|
| 20 - 80 | 30 - 80 | 40 - 80 | 45 - 80 | 60 - 80 |

Output | Nominal (VDC)

Output | Actual (VDC)

| 13.6 | 27.2 | 36.3 | 40.8 | 54.4 |
|------|------|------|------|------|
| | | | | |

Applications



BCH10 | DC SOURCE BATTERY CHARGER

INPUT

| Model | BCH10-12 | BCH10-24 | BCH10-32 | BCH10-36 | BCH10-48 |
|-------------|-------------|-------------|-------------|-------------|-------------|
| Input Volts | 20 - 80 VDC | 30 - 80 VDC | 40 - 80 VDC | 45 - 80 VDC | 60 - 80 VDC |

OUTPUT VOLTS

| Nominal | 12 VDC | 24 VDC | 32 VDC | 36 VDC | 48 VDC |
|---------|----------|----------|----------|----------|----------|
| Actual | 13.6 VDC | 27.2 VDC | 36.3 VDC | 40.8 VDC | 54.4 VDC |

OUTPUT

| Output Amps | 10 Amps | | | | |
|-------------|---------|-------|----------|-------|-------|
| Dissipation | | | 12 Watts | | |
| Efficiency | 91.9% | 95.8% | 96.8% | 97.1% | 97.8% |

ELECTRICAL

| Input Ripple & Noise | < 100 mV Peak to Peak | |
|--------------------------|-----------------------|--|
| Output Ripple & Noise | < 50 mV Peak to Peak | |
| Regulation (Line & Load) | < +/- 0.5% | |

MECHANICAL

| Dimensions | 4.85 in / 12.3 cm Long x 4.13 in / 10.5 cm Wide (incl. mounting flanges) x 1.03 in / 2.6 cm High |
|---------------------|---|
| Clearance | 1.0 in / 2.5 cm all around |
| Weight | 0.62 lb / 0.28 kg |
| Material and Finish | Marine grade aluminum with red anodize cover / black anodize chassis |
| Mounting | Wall or shelf mount |
| Connections | Pluggable Phoenix Combi-Com four position terminals |

OPTIONS

Wide Temperature -40°C - +55°C Operation

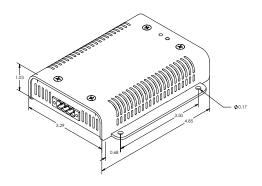
Custom output voltages available

FEATURES



Simple plug in wiring

DIMENSIONS





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8128 River Way Delta BC V4G 1K5

ENVIRONMENTAL AND SAFETY

| Operating Temperature Range | -25°C to +40°C @ maximum output. |
|-----------------------------|---|
| Humidity | 0 - 95% Relative Humidity (non-condensing) with standard conformal coating |
| Audible Noise | NONE 0db @ 3ft |
| Typical Service Life | > 10 years (87,600 hrs) |
| Isolation | Any input or output to case (1500 VDC) Input to output - common negative |
| Warranty | Three years parts and labor |
| Safety | Built to meet CSA 22.2.107.1 & UL458 |
| | |