

FEATURES

- Non-isolated
- Wide input voltage from 18V to 35V
- Stable output voltage is 13.8V
- 100% full rated power
- 100% burn-in test
- High efficiency up to 95%
- Cooling by free air convection
- Surface mountable
- 2-year warranty
- IP68 waterproof, Epoxy potting, Anti-vibration, Dustproof
- Over current protection, Over voltage protection
- Over temperature protection
- According to: EN 61000-6-3:2007/A1:2011/AC:2012
EN 55014-1:2006/A2:2011 EN 60950-1:2006/AC:2011

| model | input voltage range (Vdc) | output voltage (Vdc) | output current typ (A) | output power max (W) | ripple and noise typ (mVp-p) | efficiency typ (%) |
|-------------|---------------------------|----------------------|------------------------|----------------------|------------------------------|--------------------|
| B30-24-13R8 | 18-35 | 13.8 | 30 | 414 | 120 | 95 |

Note: All specifications measured at 25°C, nominal input voltage, and full load unless otherwise noted.

INPUT

| Parameter | Test conditions or description | Min | Typ | Max | Units |
|-------------------------|--------------------------------|-----|-----|-----|-------|
| Operating input voltage | | 18 | 24 | 35 | Vdc |

OUTPUT

| Parameter | Test conditions or description | Min | Typ | Max | Units |
|-------------------------|--------------------------------------|------|--------|------|-------|
| Line regulation | Measured from high line to low line | | | ±0.2 | % |
| Load regulation | Measured from full load to zero load | | | ±0.2 | % |
| Voltage accuracy | | | | ±1.5 | % |
| Adjust range | | 13.7 | 13.8 | 13.9 | V |
| Temperature coefficient | | | ±0.03 | | %/°C |
| No load current | | | ≤ 0.01 | | A |

PROTECTIONS

| Parameter | Test conditions or description | Min | Typ | Max | Units |
|---------------------------------|--------------------------------|-----|-----|-----|-------|
| Output over voltage protection | %Vo | 115 | | 140 | % |
| Output short circuit protection | Continuous | | | | |
| Current limit | % nominal output current | 100 | 110 | 120 | % |
| Thermal shutdown case temp | | | 85 | | °C |
| Cooling | Free air convection | | | | |
| Fuse | built in PCB | | 35 | | A |

SAFETY AND COMPLIANCE

| Parameter | Test conditions or description |
|------------------|---|
| Safety approvals | EN 61000-6-3:2007/A1 :2011/AC:2012 EN 55014-1:2006/A2:2011 EN 60950-1:2006/AC:2011 |
| Enclosures | IP68 |

ENVIRONMENTAL

| Parameter | Test conditions or description | Min | Typ | Max | Units |
|----------------------------|--------------------------------|-----|-----|-----|-------|
| Case operating temperature | | -40 | 25 | 85 | °C |
| Ambient temperature | | -20 | | 60 | °C |
| Storage temperature | | -40 | | 105 | °C |
| Humidity | Non-condensing | | | 95 | % |

DERATING CURVE



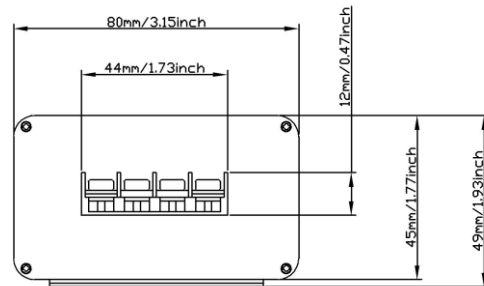
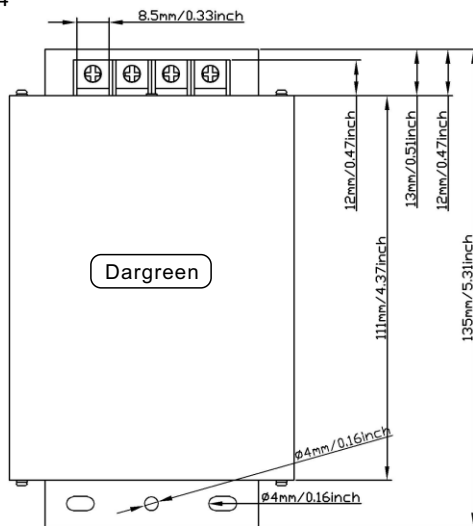
Power Conversion Solutions from 1W to 200KW

MECHANICAL

| Parameter | Test conditions or description |
|--------------------------|---------------------------------------|
| Dimensions (L x W x H) | 135 x 80 x 45mm 5.31x3.15x1.77inch |
| Wire length | / |
| Case material | Aluminum |
| Net weight | 820g/1.81lb |
| Package | 1pcs/box, 30pcs/carton |
| Shipping dimensions | 43*25*24.5cm/16.93*9.84*9.65inch |
| Shipping weight | 26kg/57.32lb |

MECHANICAL DRAWING

Screw: M4



More Models



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