



FEATURES

- * 99-150W Isolated Output
- * Efficiency to 91%
- * 250KHz Switching Frequency
- * 4:1 Input Range
- * Regulated Outputs
- * Remote On/Off
- * Over Temperature Protection
- * Over Voltage/Current Protection
- * Continuous Short Circuit Protection
- * Half-Brick Size Meet Industrial Standard
- * CE Mark Meets 2004/108/EC
- * UL60950-1 Approval (Except 28&48 Vout)



| MODEL NUMBER | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | | INPUT CURRENT | | % EFF. | CAPACITOR LOAD MAX. |
|----------------|---------------|----------------|----------------|--------|---------------|-----------|--------|---------------------|
| | | | MIN. | MAX. | NO LOAD | FULL LOAD | | |
| CHB150W-24S3V3 | 9-36 VDC | 3.3 VDC | 0 mA | 30 A | 200 mA | 4741 mA | 87 | 30000uF |
| CHB150W-24S05 | 9-36 VDC | 5.0 VDC | 0 mA | 30 A | 200 mA | 7184 mA | 87 | 30000uF |
| CHB150W-24S12 | 9-36 VDC | 12 VDC | 0 mA | 12.5 A | 100 mA | 7102 mA | 88 | 12500uF |
| CHB150W-24S15 | 9-36 VDC | 15 VDC | 0 mA | 10 A | 100 mA | 7184 mA | 87 | 10000uF |
| CHB150W-24S24 | 9-36 VDC | 24 VDC | 0 mA | 6.5 A | 100 mA | 7386 mA | 88 | 1800uF |
| CHB150W-24S28 | 9-36 VDC | 28 VDC | 0 mA | 5.4 A | 100 mA | 7325 mA | 86 | 1800uF |
| CHB150W-24S48 | 9-36 VDC | 48 VDC | 0 mA | 3.12 A | 200 mA | 7428 mA | 84 | 1000uF |
| CHB150W-48S3V3 | 18-75 VDC | 3.3 VDC | 0 mA | 30 A | 100 mA | 2344 mA | 88 | 30000uF |
| CHB150W-48S05 | 18-75 VDC | 5.0 VDC | 0 mA | 30 A | 100 mA | 3472 mA | 90 | 30000uF |
| CHB150W-48S12 | 18-75 VDC | 12 VDC | 0 mA | 12.5 A | 50 mA | 3434 mA | 91 | 12500uF |
| CHB150W-48S15 | 18-75 VDC | 15 VDC | 0 mA | 10 A | 50 mA | 3472 mA | 90 | 10000uF |
| CHB150W-48S24 | 18-75 VDC | 24 VDC | 0 mA | 6.5 A | 50 mA | 3611 mA | 90 | 2200uF |
| CHB150W-48S28 | 18-75 VDC | 28 VDC | 0 mA | 5.4 A | 50 mA | 3580 mA | 88 | 2200uF |
| CHB150W-48S48 | 18-75 VDC | 48 VDC | 0 mA | 3.12 A | 100 mA | 3633 mA | 86 | 1000uF |

NOTE: 1. Nominal Input Voltage 24, 48VDC

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

INPUT SPECIFICATIONS:

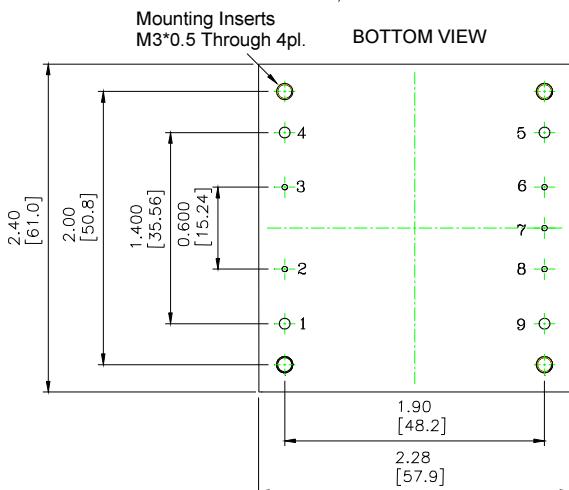
| | | |
|---|------------------------|-------------|
| Input Voltage Range | 24V | 9-36V |
| | 48V | 18-75V |
| Input Surge Voltage (100ms max.) | 24V | 50Vdc max. |
| | 48V | 100Vdc max. |
| Under Voltage Lockout | 24Vin power up | 8.8V |
| | 24Vin power down | 8.0V |
| | 48Vin power up | 17V |
| | 48Vin power down | 16V |
| Positive Logic Remote On/Off (note 4&5) | | |

OUTPUT SPECIFICATIONS:

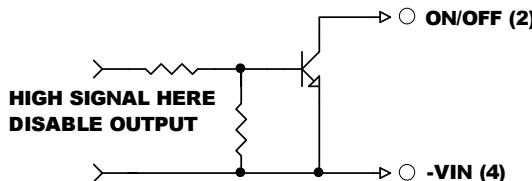
| | |
|--|----------------------------------|
| Voltage Accuracy (note7) | ±1.5% max. |
| Transient Response: 25% Step Load Change | <500µs |
| External Trim Adj. Range | ±10% |
| Ripple & Noise, 20MHz BW (note3) | |
| 3.3V & 5V | 40mV RMS max., 100mV pk-pk max. |
| 12V & 15V | 60mV RMS max., 150mV pk-pk max. |
| 24V | 100mV RMS max., 240mV pk-pk max. |
| 28V | 100mV RMS max., 280mV pk-pk max. |
| 48V | 200mV RMS max., 480mV pk-pk max. |
| Temperature Coefficient | ±0.03%/°C |
| Short Circuit Protection | Continuous |
| Line Regulation (note1) | ±0.2% max. |
| Load Regulation (note2) | ±0.2% max. |
| Over Voltage Protection Trip Range, % Vo nom. | 115-140% |
| Current Limit | 110%-140% Nominal Output |
| Start up time | 25ms typ. |

CASE HB

All Dimensions In Inches(mm)
Tolerances Inches: X.XX= ± 0.02 , X.XXX= ± 0.010
 Millimeters: X.X= ± 0.5 , X.XX= ± 0.25



REMOTE ON/OFF CONTROL

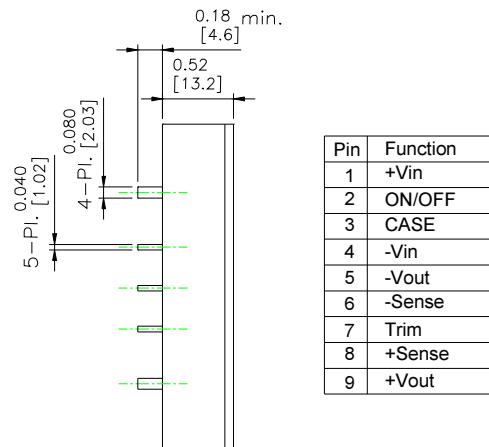


GENERAL SPECIFICATIONS:

| | |
|--|---|
| Efficiency | See Table |
| Isolation Voltage Input/Output, Input/Case, Output/Case ... | 1500VDC min.. |
| Isolation Resistance | 10^7 ohm min. |
| Isolation Capacitance | 1000pF typ. |
| Switching Frequency | 250KHz typ. |
| Operating Case Temperature | -40°C to 100°C |
| Storage Temperature | -55°C to +105°C |
| Thermal Shutdown Case Temp. | 110°C typ. |
| Humidity | 95% RH max. Non condensing |
| MTBF MIL-HDBK-217F, GB, 25°C, Full Load | 400Khrs typ. |
| Dimensions | 2.28x2.40x0.52 inches (57.9x61.0x13.2 mm) |
| Case Material | Aluminum Baseplate with Plastic Case |
| Weight | 112g |

NOTE:

1. Measured from high line to low line.
 2. Measured from full load to zero load.
 3. Output ripple and noise measured with 10uF tantalum and 1uF ceramic capacitor across output.
 4. Logic compatibility open collector ref to -input
Module on >3.5VDC or open circuit
Module off <1.8VDC
 5. Suffix "N" to the model number with negative logic remote on/off
Module on <1.8VDC
Module off >3.5VDC or open circuit
 6. Suffix "-C" to the model number with clear mounting insert. (3.2mm DIA.)
 7. Require a 47uF aluminum capacitor connected between +Vout and -Vout for 48Vout models.



EXTERNAL OUTPUT TRIM

