

CHB75-Dual

S E R I E S

75 WATT DUAL OUTPUTS DC-DC CONVERTERS



Features

- 75W Isolated Dual Output
- 400KHz Switching Frequency
- Half Brick Package
- Total Output Power 75W with 15A Maximum Per Channel
- Regulated Outputs
- Efficiency to 84%
- Continuous Short Circuit Protection

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	SIZE
			MIN.	MAX.	NO LOAD	FULL LOAD		
CHB75-24D05-3V3	18-36VDC	Vo1=5V Vo2=3.3V	0A 0A	15A 15A	50 mA	3765 mA	83% (2)	Half-Brick
CHB75-24D05-2V5	18-36VDC	Vo1=5V Vo2=2.5V	0A 0A	15A 15A	50 mA	3765 mA	83% (2)	Half-Brick
CHB75-48D05-3V3	36-75VDC	Vo1=5V Vo2=3.3V	0A 0A	15A 15A	30 mA	1860 mA	84% (2)	Half-Brick
CHB75-48D05-2V5	36-75VDC	Vo1=5V Vo2=2.5V	0A 0A	15A 15A	30 mA	1860 mA	84% (2)	Half-Brick

NOTE: 1. Nominal Input Voltage 2. 24 or 48 VDC

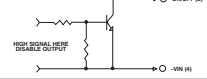
Specifications

INPUT SPECIFICATIONS:
 Input Voltage Range.....24V.....18-36V
 48V.....36-75V
 Undervoltage lockout24Vin power up.....17V
 power down15.5V
 48Vin power up34V
 power down32.5V
 Positive Logic Remote ON/OFF^{1,2}PI Type
 Input FilterPI Type

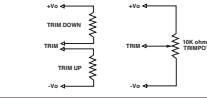
OUTPUT SPECIFICATIONS:
 Voltage Accuracy±2% max.
 Transient Response 25% Step Load Change.....<500µsec.
 External Trim Adj. Range±5%
 Ripple & Noise, 20MHz BW.....
 3.3V & 5V & 2.5V.....40mV RMS, max.
 100mV pk-pk, max.
 Temperature Coefficient.....±0.03%/°C
 Short Circuit Protection.....Continuous
 Line Regulation±0.2% max.
 Load Regulation³.....±0.5% max.
 Over Voltage Protection trip Range, % Vo nom.....115-140%
 Current Limit110% -140% Nominal Output

GENERAL SPECIFICATIONS:
 EfficiencySee Table
 Isolation VoltageInput/Output.....1500VDC min.
 Input/Case.....1500VDC min.
 Output/Case.....1500VDC min.
 Isolation Resistance10¹⁰ ohm min.
 Switching Frequency400KHz Typ.
 Operating Case Temperature-40°C to +100°C
 Storage Temperature-55°C to +105°C
 Thermal Shutdown, Case Temp.100°C Typ.
 Dimensions2.28x2.40x0.52 inches
 (57.9x61.0x13.2 mm)
 Case Material.....Aluminum Baseplate with Plastic Case
 Weight.....108g

Remote On/Off Control



External Output Trim



PIN CONNECTION

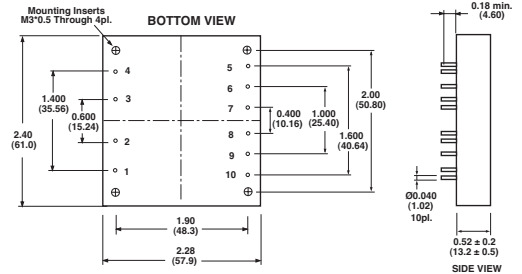
Pin	Function
1	+Vin
2	ON/OFF
3	CASE
4	-V in
5	+Vo2
6	-Vo2
7	Vo2 Trim
8	+Vo1
9	-Vo1
10	Vo1 Trim

NOTE:

1. Measured From High Line to Low Line.
2. Measured From Full Load to Min. Load.
3. Measured with Output Current on Output 1 (Vo1)
4. Logic Compatibility Open Collector Ref. to Input
 Module ON Open Circuit
 Module OFF < 0.8Vdc
5. Suffix "N" to the Model Number with Negative Logic Remote ON/OFF.
6. The Output Noise is Measured with 10µf tantalum and 1µf Ceramic Capacitor across output.

CASE HB

All Dimensions in Inches(mm)
 Tolerance Inches: xxx ±0.02, xxxx ±0.010
 Millimeters: xxx ±0.5, xxxx ±0.25



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