

# CHB75-Dual

## 75 WATT WIDE INPUT DC-DC CONVERTERS DUAL OUTPUT



### Features

- 75W Isolated Output
- Efficiency to 84%
- 400KHz Switching Frequency
- 2 : 1 Input Range
- Regulated Outputs
- Continuous Short Circuit Protection
- Industry Standard Half-Brick Package
- Total Power 75W With 15A Maximum Per Channel

\* Safety meet UL 1950

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

NOTE : 1. Nominal Input Voltage: 24 & 48 VDC  
2. Measured with 15A load on Vo1

### Specifications

#### INPUT SPECIFICATIONS:

Input Voltage Range.....	24V.....18-36V	48V.....36-75V
Undervoltage lockout .....	24Vin power up ..... 17V	24Vin power down ..... 15.5V
	48Vin power up ..... 34V	48Vin power down ..... 32.5V
Positive Logic Remote ON/OFF <sup>4,5</sup>		
Input Filter .....	PI Type	

#### OUTPUT SPECIFICATIONS:

Voltage Accuracy : .....	±2% max.
Transient Response :25% Step Load Change .....	<500µ sec.
External Trim Adj. Range, Each Output .....	±5%
Ripple & Noise, 20MHz BW <sup>6</sup>	3.3 & 5V & 2.5V ..... 40mV RMS., max. 100mV pk-pk, max..
Temperature Coefficient.....	±0.03%/°C
Short Circuit Protection.....	Continuous
Line Regulation <sup>1</sup> .....	±0.2% max.
Load Regulation <sup>2</sup> .....	±0.5% max.
Over Voltage Protection trip Range, % Vo nom.....	115-140%
Current Limit <sup>3</sup> .....	110% ~140% Nominal Output

#### GENERAL SPECIFICATIONS:

Efficiency.....	See Table
Isolation Voltage .....	Input/Output.....1500VDC min. Input/Case.....1500VDC min. Output/Case.....1500VDC min.
Isolation Resistance .....	10 <sup>7</sup> ohm min.
Switching Frequency .....	400KHz, Typ.
Operating case Temperature .....	-40°C to 100°C
Storage Temperature .....	-55°C to +105°C
Thermal Shutdown, Case Temp.....	100°C Typ.
Dimensions .....	2.28x2.40x0.50 inches (57.9x61.0x12.7 mm)
Case Material .....	Aluminum Baseplate with Plastic Case
Weight.....	108g

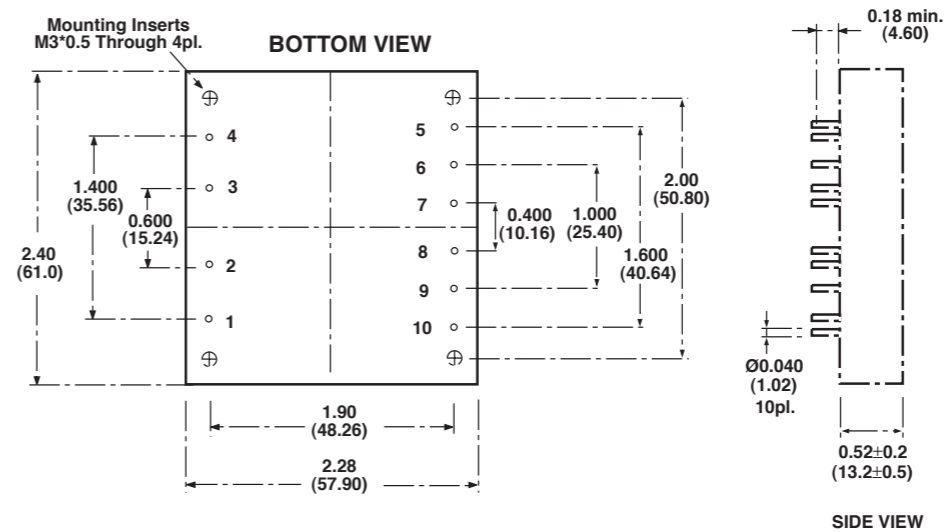
#### NOTE:

1. Measured From High Line to Low Line.
2. Measured From Full Load to Min. Load.
3. Measured with Output Current on Output1 (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 10 µF Tantalum and 1µF Ceramic Capacitor across output.

### CASE HB

All Dimensions in Inches(mm)

Tolerances	Inches	.XX±.02	.XXX±.010	Pin ±0.02
	Millimeters	.X±.5	.XX±.25	±0.5



#### PIN CONNECTION

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