

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 MIN.	OUTPUT CURRENT MAX.	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	%EFF	CASE
CHB75-24D05-3V3	18-36Vdc	Vo1=5V Vo2=3.3V	0A 0A	15A 15A	50 mA	3765 mA	83% (2)	HB
CHB75-24D05-2V5	18-36Vdc	Vo1=5V Vo2=2.5V	0A 0A	15A 15A	50 mA	3765 mA	83% (2)	HB
CHB75-48D05-3V3	36-75Vdc	Vo1=5V Vo2=3.3V	0A 0A	15A 15A	30 mA	1860 mA	84% (2)	HB
CHB75-48D05-2V5	36-75Vdc	Vo1=5V Vo2=2.5V	0A 0A	15A 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 ^{4,5}		
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 ⁶	
	3.3 & 5V & 2.5V 40mV RMS., max.
	100mV pk-pk, max..
Temperature Coefficient.....	±0.03%/°C
Short Circuit Protection.....	Continuous
Line Regulation ¹	±0.2% max.
Load Regulation ²	±0.5% max.
Over Voltage Protection trip Range, % Vo nom.....	115-140%
Current Limit ³	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 ⁹ 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

