

CHB75-Dual

S E R I E S

75 WATT DC-DC CONVERTERS DUAL OUTPUTS



Features

- 75W Isolated Output
- Efficiency to 84%
- 400KHz Switching Frequency
- 2 : 1 Input Range
- Regulated Outputs
- Continuous Short Circuit Protection
- Half-Brick Size Meet Industrial Standard
- Total Power 75W with 15A Maximum per Channel
- CE Mark Meets 2004/108/EC
- UL60950-1 Approval

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	Capacitor Load max.
			MIN.	MAX.	NO LOAD	FULL LOAD		
CHB75-24D05-3V3	18-36 VDC	Vo1=5V Vo2=3.3V	0 A 0 A	15 A 15 A	50 mA	3765 mA	83% (2)	15000µF
CHB75-24D05-2V5	18-36 VDC	Vo1=5V Vo2=2.5V	0 A 0 A	15 A 15 A	50 mA	3765 mA	83% (2)	15000µF
CHB75-48D05-3V3	36-75 VDC	Vo1=5V Vo2=3.3V	0 A 0 A	15 A 15 A	30 mA	1860 mA	84% (2)	15000µF
CHB75-48D05-2V5	36-75 VDC	Vo1=5V Vo2=2.5V	0 A 0 A	15 A 15 A	30 mA	1860 mA	84% (2)	15000µF

NOTE: 1. Nominal Input Voltage 24, 48VDC
2. Measured with 15A Load on VO1

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....	24V.....	18-36V
	48V.....	36-75V
Input Surge Voltage (100ms max.)	24V	50Vdc max.
	48V	100Vdc max.
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

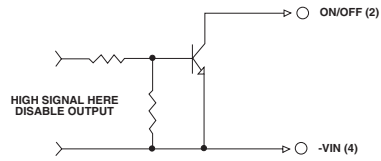
OUTPUT SPECIFICATIONS:

Voltage Accuracy.....	±2% max.
Transient Response : 25% Step Load Change.....	< 500µs
External Trim Adj. Range Each Output.....	±5%
Ripple & Noise, 20MHz BW ⁶	
3.3V & 5V & 2.5V.....	40mV RMS max.
	100mV pk-pk max.
Temperature Coefficient.....	±0.03%/°C max.
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
Start up time	20ms typ.

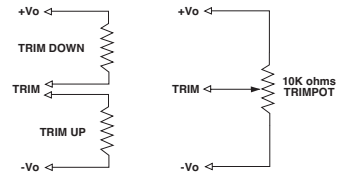
GENERAL SPECIFICATIONS:

Efficiency.....	See Table
Isolation Voltage	Input/Output..... 1500VDC min.
	Input/Case..... 1500VDC min.
	Output/Case..... 1500VDC min.
Isolation Resistance	10 ⁷ ohm min.
Isolation Capacitance	1000pF typ.
Switching Frequency	400KHz typ.
Operating Case Temperature	-40°C to 100°C
Storage Temperature	-55°C to +105°C
Humidity	95% RH max. Non condensing
MTBF	MIL-STD-217F, GB, 25°C, Full Load 700KHrs typ.
Thermal Shutdown, Case Temp.	100°C typ.
Dimensions	2.28x2.40x0.52 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 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.
7. Suffix "-C" to the Model Number with Clear Mounting Insert (3.2mm DIA).

CASE HB

All Dimensions In Inches(mm)
Tolerance Inches: x.xx= ±0.02, x.xxx= ±0.010
Millimeters: x.x= ±0.5, x.xx= ±0.25

