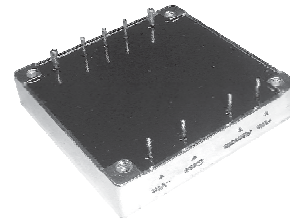


# CHB75-24D/48D

S E R I E S



## 75 Watts Dual Outputs DC - DC Converter

### FEATURES

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

### SPECIFICATIONS

Input Voltage Range.....24V: 18-36VDC/48V: 36-75VDC  
 Undervoltage Lockout  
 24Vin power up: 17VDC / power down: 15.5VDC  
 48Vin power up: 34VDC / power down: 32.5VDC  
 Positive Logic Remote On/Off.....See note 4 & 5  
 Input Filter.....PI Type  
 Voltage Accuracy..... 2% max.  
 Transient Response: 25% Step Load Change.....<500µs.  
 External Trim Adj. Range..... 5%  
 R & N (20MHz BW)<sup>6</sup>.....3.3 & 5V & 2.5V: 100mV pK-pK max.  
 Temperature Coefficient..... 0.03%/°C max.  
 Short Circuit Protection... Continuous  
 Line Regulation<sup>1</sup>..... 0.2% max.  
 Load Regulation<sup>2</sup>..... 0.5% max.  
 OVP trip Range, % Vo nom.....115-140%  
 Current Limit<sup>3</sup>.....110%~140% Nominal Output  
 Start up Time.....20ms Typ.  
 Isolation Voltage.....Input/Output.....1500VDC min.  
 Input Case / 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.  
 Case Material.....Aluminum Baseplate with Plastic Case  
 Dimensions:.....2.28x2.40x0.52 inches(57.9x61.0v13.2mm)  
 Weight.....108g

Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (A)	EFF. %	Capacitor Load Max.
CHB75-24D05-3V3	18-36	Vo1=5	15	83% <sup>2</sup>	15000µF
		Vo2=3.3	15		
CHB75-24D05-2V5	18-36	Vo1=5	15	83% <sup>2</sup>	15000µF
		Vo2=2.5	15		
CHB75-48D05-3V3	36-75	Vo1=5	15	84% <sup>2</sup>	15000µF
		Vo2=3.3	15		
CHB75-48D05-2V5	36-75	Vo1=5	15	84% <sup>2</sup>	15000µF
		Vo2=2.5	15		

#### Note for Model List:

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

#### Note for specifications:

- (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: < 0.8 VDC
- (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
- (7) Suffix "C" to the Model number with Clear Mounting Insert (3.2mm DIA.)

### MECHANICAL DRAWING (Unit: inch(mm))

