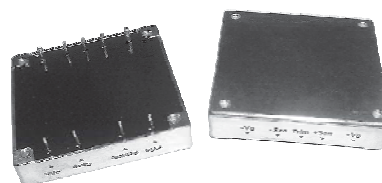


CHB100/CHB150

S E R I E S

50 ~ 150 Watts DIP Type Single Output DC - DC Converter



FEATURES

- ◆ 50-150W Isolated Output / 2:1 Input Range
- ◆ Regulated Outputs / Efficiency To 89%
- ◆ Half-Brick size meet Industrial Standard
- ◆ 500KHz Switching Frequency
- ◆ CE Mark Meets 2004/108/EC ; UL60950-1 Approval
- ◆ Five-Sided Metal Case

SPECIFICATIONS

Input Voltage Range.....24V: 18-36VDC / 48V: 36-75VDC
Undervoltage Lockout.....
24Vin power up: 17VDC / power down: 16VDC
48Vin power up: 34VDC / power down: 32.5VDC
Positive Logic Remote On/Off.....See note 3 & 4
Input Filter.....PI Type
Voltage Accuracy.....1% max.
Transient Response.....25% Step Load Change.....<500 μ s.
External Trim Adj. Range.....10%
R & N (20MHz BW).....2.5 & 3.3 & 5V.....100mV pk-pk max.
12V & 15V.....150mV pk-pk max.
24V.....240mV pk-pk max.
Temperature Coefficient.....0.03%/°C max.
Short Circuit Protection.....Continuous
Line Regulation¹.....0.2% max.
Load Regulation².....0.2% max.
OVP trip Range, % Vo nom.....115-140%
Current Limit.....110%~140% Nominal Output
Switching Frequency.....500KHz, Typ.
Isolation Voltage.....1500 VDC min.
Isolation Resistance.....10⁷ohm min.
Operating Case Temperature.....-40°C To +100°C
Storage Temperature.....-40°C To +105°C
Thermal Shutdown, Case Temp.100°C Typ.
Case Material.....Aluminum
Dimensions.....2.28 x 2.40 x 0.50 inches (57.9 x 61.0 x 12.7mm)
Weight.....95g (CHB100) ; 100g (CHB150)

NOTE:

- (1) Measured from high line to low line.
(2) Measured from full load to zero load

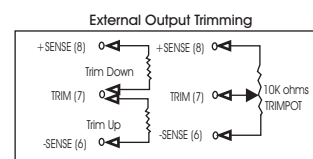
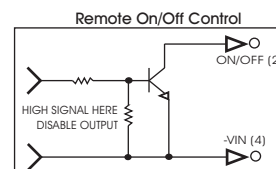
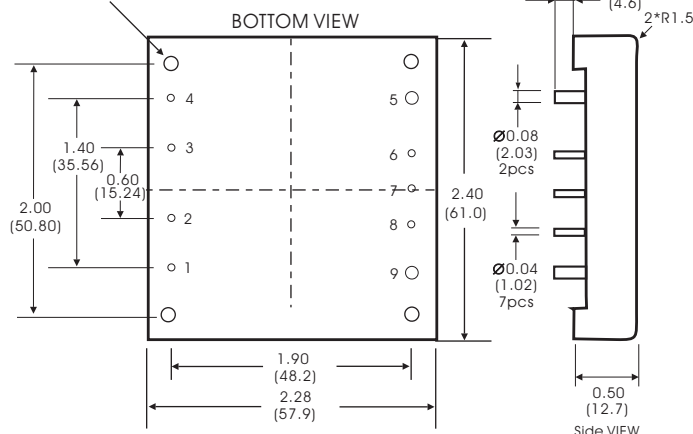
Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (A)	EFF. %
CHB100-24S25	18-36	2.5	0~20	79
CHB100-24S33	18-36	3.3	0~20	83
CHB100-24S05	18-36	5	0~20	84
CHB100-24S12	18-36	12	0~8.3	87
CHB100-24S15	18-36	15	0~6.7	88
CHB100-24S24	18-36	24	0~4.17	87
CHB100-48S25	36-75	2.5	0~20	80
CHB100-48S33	36-75	3.3	0~20	82
CHB100-48S05	36-75	5	0~20	86
CHB100-48S12	36-75	12	0~8.3	89
CHB100-48S15	36-75	15	0~6.7	89
CHB100-48S24	36-75	24	0~4.17	88
CHB150-48S25	36-75	2.5	0~30	77
CHB150-48S33	36-75	3.3	0~30	82
CHB150-48S05	36-75	5	0~30	86
CHB150-48S12	36-75	12	0~12.5	89
CHB150-48S15	36-75	15	0~10	89
CHB150-48S24	36-75	24	0~6.25	89

NOTE:

- (3) Logic Compatibility: Open collector ref. to -Input
Module ON: Open Circuit
Module OFF < 0.8VDC
(4) Suffix "N" to the Model No. with Negative Logic Remote ON/OFF
(5) The Output Noise is Measured with 10 μ F Tantalum and 1 μ F Ceramic Capacitor across output.

MECHANICAL DRAWING (Unit: inch(mm))

Mounting Inserts
M3*0.5 Through 4pcs.



PIN CONNECTION			
PIN	FUNC.	PIN	FUNC.
1.	+Vin	6.	-Sense
2.	On/Off	7.	Trim
3.	Case	8.	+Sense
4.	-Vin	9.	+Vout
5.	-Vout		