



electronicpower solutions



## FEATURES

- \* 66 - 100W Isolated Output
- \* Efficiency to 89%
- \* 500KHz Switching Frequency
- \* 2:1 Input Range
- \* Regulated Outputs
- \* Continuous Short Circuit Protection
- \* Five-Sided Metal Case
- \* Half-Brick Size Meet Industrial Standard
- \* UL60950-1 Approval
- \* Without Tantalum Capacitor Inside  
(Except 3.3&5Vout)



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	CAPACITOR LOAD MAX.
			MIN.	MAX.	NO LOAD	FULL LOAD		
CHB100-24S33	18-36 VDC	3.3 VDC	0 mA	20 A	50 mA	3313 mA	83	20000uF
CHB100-24S05	18-36 VDC	5 VDC	0 mA	20 A	50 mA	4960 mA	84	20000uF
CHB100-24S12	18-36 VDC	12 VDC	0 mA	8.3 A	50 mA	4770 mA	87	8300uF
CHB100-24S15	18-36 VDC	15 VDC	0 mA	6.7 A	50 mA	4758 mA	88	6700uF
CHB100-24S24	18-36 VDC	24 VDC	0 mA	4.17 A	50 mA	4793 mA	87	4170uF
CHB100-48S33	36-75 VDC	3.3 VDC	0 mA	20 A	50 mA	1676 mA	82	20000uF
CHB100-48S05	36-75 VDC	5 VDC	0 mA	20 A	50 mA	2422 mA	86	20000uF
CHB100-48S12	36-75 VDC	12 VDC	0 mA	8.3 A	50 mA	2331 mA	89	8300uF
CHB100-48S15	36-75 VDC	15 VDC	0 mA	6.7 A	50 mA	2352 mA	89	6700uF
CHB100-48S24	36-75 VDC	24 VDC	0 mA	4.17 A	50 mA	2369 mA	88	4170uF

NOTE: 1. Nominal Input Voltage 24 or 48VDC

# SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

## INPUT SPECIFICATIONS:

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

### Under Voltage Lockout:

24Vin .....	Power Up .....	17V, Power Down .....	16V
48Vin .....	Power Up .....	34V, Power Down .....	32.5V

### Positive Logic Remote On/Off (note3&4)

Input Filter .....	Pi Type
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## OUTPUT SPECIFICATIONS:

Voltage Accuracy .....	±1.0% max.
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Transient Response:25% Step Load Change .....	<500µs
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External Trim Adj. Range .....	±10%
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### Ripple & Noise, 20MHz BW (note5)

3.3V & 5V .....	40mV RMS max.
	100mV pk-pk max.

12V & 15V .....	60mV RMS max.
	150mV pk-pk max.

24V .....	100mV RMS max.
	240mV pk-pk max.

Temperature Coefficient .....	±0.03%/°C max.
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Short Circuit Protection .....	Continuous
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Line Regulation (note1) .....	±0.2% max.
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Load Regulation (note2) .....	±0.2% max.
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Over Voltage Protection Trip Range, % Vo Nom. .....	115-140%
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Current Limit .....	110%-140% Nominal Output
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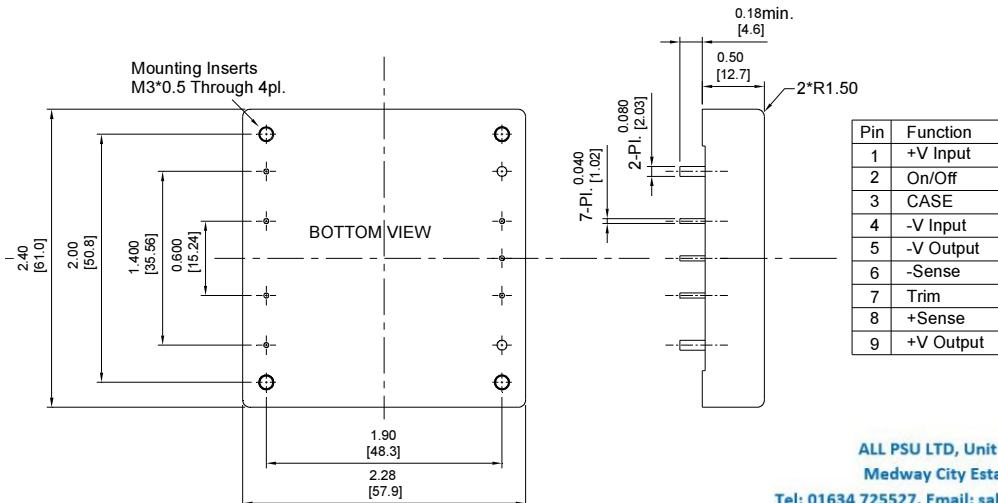
Start up time .....	5ms typ.
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### CASE HB

#### All Dimensions In Inches(mm)

Tolerances      Inches: X.XX= ±0.02 , X.XXX= ±0.010

Millimeters: X.X= ±0.5 , X.XX=±0.25

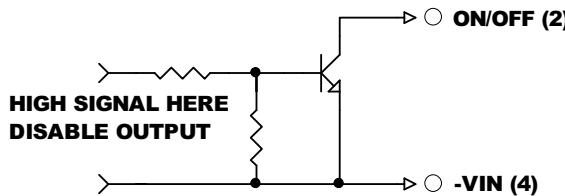


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## REMOTE ON/OFF CONTROL



## EXTERNAL OUTPUT TRIM

