

- **2:1 Input Range**
- **Efficiency to 89%**
- **Half-brick Package**
- **OCP/ OVP/ OTP**
- **continuous short circuit Protection**
- **Remote ON/OFF**



Model Number	Input Voltage	Output Voltage	Output Current	Input Current		% Eff.
				No Load	Full Load	
TP50-12S2.5	9 – 18 V	2.5 VDC	10 A	50 mA	2740 mA	76
TP50-12S3.3	9 – 18 V	3.3 VDC	10 A	50 mA	3525 mA	79
TP50-12S05	9 – 18 V	5 VDC	10 A	50 mA	5145 mA	83
TP50-12S12	9 – 18 V	12 VDC	4.16 A	50 mA	4950 mA	87
TP50-12S15	9 – 18 V	15 VDC	3.33 A	50 mA	4950 mA	87
TP50-12S24	9 – 18 V	24 VDC	2.08 A	50 mA	4950 mA	87
TP50-24S2.5	18 – 36 V	2.5 VDC	10 A	50 mA	1353 mA	78
TP50-24S3.3	18 – 36 V	3.3 VDC	10 A	50 mA	1740 mA	81
TP50-24S05	18 – 36 V	5 VDC	10 A	50 mA	2540 mA	85
TP50-24S12	18 – 36 V	12 VDC	4.16 A	50 mA	2450 mA	88
TP50-24S15	18 – 36 V	15 VDC	3.33 A	50 mA	2450 mA	88
TP50-24S24	18 – 36 V	24 VDC	2.08 A	50 mA	2419 mA	88
TP50-48S2.5	36 – 75 V	2.5 VDC	10 A	50 mA	676 mA	77
TP50-48S3.3	36 – 75 V	3.3 VDC	10 A	50 mA	870 mA	81
TP50-48S05	36 – 75 V	5 VDC	10 A	50 mA	1250 mA	84
TP50-48S12	36 – 75 V	12 VDC	4.16 A	50 mA	1220 mA	88
TP50-48S15	36 – 75 V	15 VDC	3.33 A	50 mA	1220 mA	88
TP50-48S24	36 – 75 V	24 VDC	2.08 A	50 mA	1209 mA	89

All Specifications are Typical at Nominal Line, Full load, and 25°C Unless Otherwise Noted / © TP 2009

### INPUT SPECIFICATIONS

INPUT UNDER-VOLTAGE LOCKOUT.....	12Vin power down .....	8V typ
	12Vin power up....	8.8V typ
	24Vin power down.....	16V typ
	24Vin power up .....	17V typ
	48Vin power down .....	32.5V typ
	48Vin power up.....	34V typ
INPUT FILTER.....		PI Type

### OUTPUT SPECIFICATIONS

Voltage Accuracy.....		±1.5% max
Ripple and Noise, 20MHz BW .....	Vo = 2,5 & 3,3V & 5V.....	max. 100mVpp.
	Vo = 12V & 15V.....	max. 150mVpp.
	Vo = 24V.....	max. 240mVpp.
Temperature Coefficient .....		±0.03%/C max
Line Regulation .....		±0.2%.
Load Regulation .....		±0.2%.
External Trim Adj. Range .....		±10%
Short Circuit Protection .....		continuous
Over Voltage Protection.....		115 – 140%
Current Limit .....		110% - 140% Nominal Output

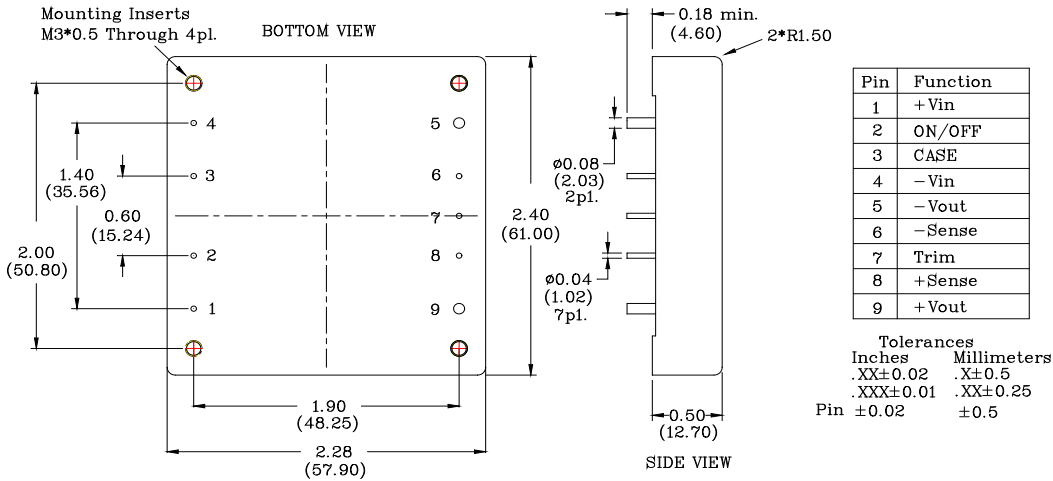
### GENERAL SPECIFICATIONS

ISOLATION VOLTAGE.....	1500VDC max.
ISOLATION RESISTANCE .....	10 MOhm
SWITCHING FREQUENCY.....	300KHz typ.
OPERATING TEMPERATURE RANGE.....	-40°C TO +100°C
THERMAL SHUT DOWN; CASE TEMPERATURE .....	100°Cmax.
STORAGE TEMPERATURE RANGE.....	-40°C TO +105°C
CASE MATERIAL .....	Aluminium
DIMENSIONS .....	2,28×2,40×0.50 INCHES (57.9 × 61.0 × 12.7mm)

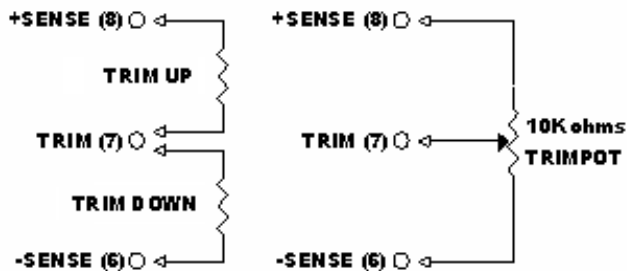
#### NOTE:

1. LINE REGULATION: Measured From High Line To Low Line
2. LOAD REGULATION: Measured From Full Load To Zero Load

### MECHANICAL SPECIFICATIONS



### External Output TRIM      REMOTE ON/OFF



Logic Compatibility      Open collector TTL refer to -  
Input  
Modul ON      Open Circuit  
Module OFF      <0.8 Vdc

