

- **2:1 & 4:1 Input Range**
- **Efficiency to 86%**
- **Half-brick Package**
- **OCP/ OVP/ OTP**
- **continuous short circuit Protection**
- **Remote ON/OFF**



Model Number	Input Voltage	Output Voltage	Output Current	Input No Load	Current Full Load	% Eff.
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	78
TP50-12S05	9 – 18 V	5 VDC	10 A	50 mA	5145 mA	81
TP50-12S12	9 – 18 V	12 VDC	4.16 A	50 mA	4950 mA	84
TP50-12S15	9 – 18 V	15 VDC	3.33 A	50 mA	4950 mA	84
TP50-12S24	9 – 18 V	24 VDC	2.08 A	50 mA	4950 mA	84
TP50-24S2.5	18 – 36 V	2.5 VDC	10 A	50 mA	1353 mA	77
TP50-24S3.3	18 – 36 V	3.3 VDC	10 A	50 mA	1740 mA	79
TP50-24S05	18 – 36 V	5 VDC	10 A	50 mA	2540 mA	82
TP50-24S12	18 – 36 V	12 VDC	4.16 A	50 mA	2450 mA	85
TP50-24S15	18 – 36 V	15 VDC	3.33 A	50 mA	2450 mA	85
TP50-24S24	18 – 36 V	24 VDC	2.08 A	50 mA	2419 mA	86
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	79
TP50-48S05	36 – 75 V	5 VDC	10 A	50 mA	1250 mA	83
TP50-48S12	36 – 75 V	12 VDC	4.16 A	50 mA	1220 mA	85
TP50-48S15	36 – 75 V	15 VDC	3.33 A	50 mA	1220 mA	85
TP50-48S24	36 – 75 V	24 VDC	2.08 A	50 mA	1209 mA	86

TP50W-24S3.3	9 – 36 V	3.3 VDC	10 A	50 mA	1740 mA	79
TP50W-24S05	9 – 36 V	5 VDC	10 A	50 mA	2540 mA	82
TP50W-24S12	9 – 36 V	12 VDC	4.16 A	50 mA	2450 mA	85
TP50W-24S15	9 – 36 V	15 VDC	3.33 A	50 mA	2450 mA	85
TP50W-24S24	9 – 36 V	24 VDC	2.08 A	50 mA	2419 mA	86
TP50W-48S3.3	18 – 75 V	3.3 VDC	10 A	50 mA	870 mA	79
TP50W-48S05	18 – 75 V	5 VDC	10 A	50 mA	1250 mA	83
TP50W-48S12	18 – 75 V	12 VDC	4.16 A	50 mA	1220 mA	85
TP50W-48S15	18 – 75 V	15 VDC	3.33 A	50 mA	1220 mA	85
TP50W-48S24	18 – 75 V	24 VDC	2.08 A	50 mA	1209 mA	86

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

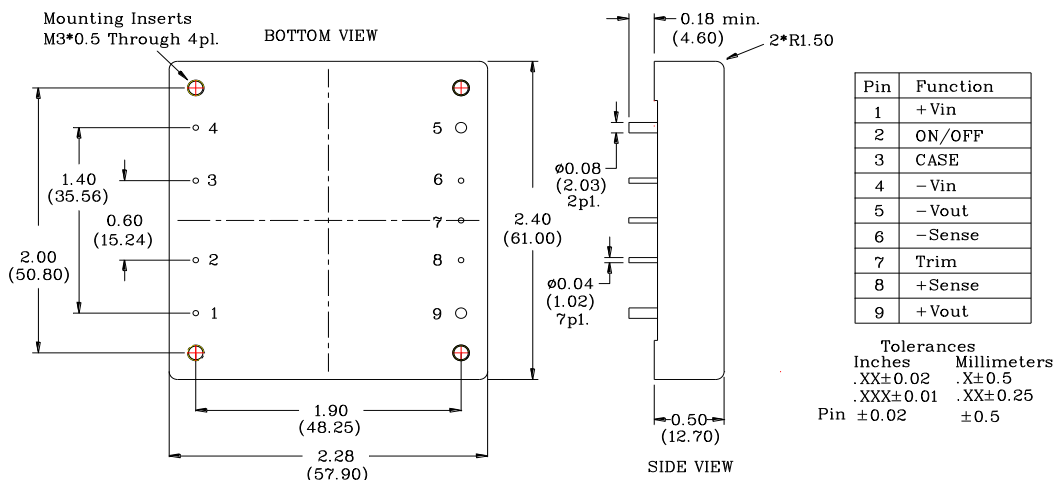
GENERAL SPECIFICATIONS

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)

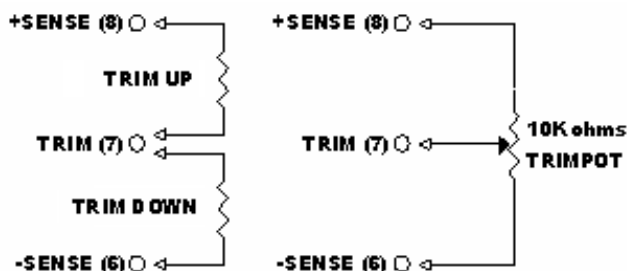
NOTE:

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

