

### TP75/TP75W-SERIES

- 37-75 Watt 2.4x2.3 Inch (61x58mm) Metal Case
- Half-Brick Size - Industrial Standard
- 2:1/4:1 Input Voltage Range  
= 9-18 / 18-36 / 36-75 / 18-75 VDC
- Single & Dual Output Voltage
- Isolation 1.500VDC
- 400kHz Switching Frequency
- Continuous Short Circuit Protection
- Remote ON/OFF-Control
- Efficiency to 85%



MODEL-NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT NO LOAD/FULL LOAD	EFF. %
TP75-12S2.5	9-18VDC	2.5VDC	15A	50/4110mA	76
TP75-12S3.3	9-18VDC	3.3VDC	15A	50/5290mA	78
TP75-12S05	9-18VDC	5VDC	15A	50/7715mA	81
TP75-12S12	9-18VDC	12VDC	6.25A	50/7440mA	84
TP75-12S15	9-18VDC	15VDC	5A	50/7440mA	84
TP75-12S24	9-18VDC	24VDC	3.13A	50/7440mA	84
TP75-24S2.5	18-36VDC	2.5VDC	15A	50/2029mA	77
TP75-24S3.3	18-36VDC	3.3VDC	15A	50/2610mA	79
TP75-24S05	18-36VDC	5VDC	15A	50/3810mA	82
TP75-24S12	18-36VDC	12VDC	6.25A	50/3675mA	85
TP75-24S15	18-36VDC	15VDC	5A	50/3675mA	85
TP75-24S24	18-36VDC	24VDC	3.13A	50/3640mA	86
TP75-48S2.5	36-75VDC	2.5VDC	15A	50/1015mA	77
TP75-48S3.3	36-75VDC	3.3VDC	15A	50/1305mA	79
TP75-48S05	36-75VDC	5VDC	15A	50/1883mA	83
TP75-48S12	36-75VDC	12VDC	6.25A	50/1838mA	85
TP75-48S15	36-75VDC	15VDC	5A	50/1838mA	85
TP75-48S24	36-75VDC	24VDC	3.13A	50/1820mA	86
TP75W-48S3.3	18-75VDC	3.3VDC	15A	50/1305mA	79
TP75W-48S05	18-75VDC	5VDC	15A	50/1883mA	83
TP75W-48S12	18-75VDC	12VDC	6.25A	50/1838mA	85
TP75W-48S15	18-75VDC	15VDC	5A	50/1838mA	85
TP75W-48S24	18-75VDC	24VDC	3.13A	50/1820mA	86

Nominal Input Voltages: 12/24/48VDC

© TECHNO-PROJEKT 2006

# 37-75 WATT DC/DC-CONVERTER SPECIFICATIONS

# TP75-SERIES

## INPUT SPECIFICATIONS:

Input Voltage Range 2:1 .....9-18/18-36/36-75V  
 Undervoltage Lockout: Power Up Power Down  
     12VDCin .....8.8V......8V  
     24VDCin .....17V......16V  
     48VDCin .....34V......32.5V  
 Positive Logic Remote ON/OFF..... see Table  
 Input Filter .....Pi-Type

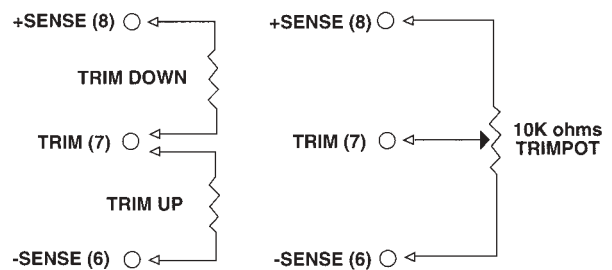
## OUTPUT SPECIFICATIONS:

Voltage Accuracy ..... $\pm 1\%$  max.  
 Transient Response:25% Step Load Change: <500 $\mu$ sec.  
 External Trim Adjust ..... $\pm 10\%$   
 Ripple & Noise (20 MHz BW):  
     2.5, 3.3 & 5V.....75mVpp max.  
     12 & 15V.....100mVpp max.  
     24V.....240mVpp max.  
 Temperature Coefficient..... $\pm 0.03\%$ / $^{\circ}$ C  
 Short Circuit Protection .....Continuous  
 Line Regulation (High Line to Low Line)..... $\pm 0.2\%$   
 Load Regulation (Full Load to Zero Load)..... $\pm 0.2\%$   
 Over Voltage Protect Trip Range, % Vo nom.: 115-140%  
 Current Limit.....110 - 150% of Nominal Output

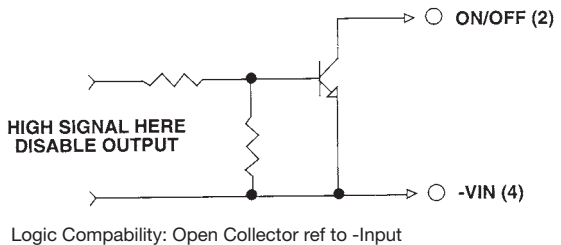
## GENERAL SPECIFICATIONS:

Efficiency..... see Table  
 Isolation Voltage\* .....1500VDC min.  
 Isolation Resistance .....1000MOhms  
 Switching Frequency 12/24Vin .....400kHz typ.  
     48Vin .....300kHz typ.  
 Operating Temperature (Case) ..... $-40^{\circ}$ C to  $+100^{\circ}$ C  
 Thermal Shutdown Range, T/Case..... $105^{\circ}$ C to  $115^{\circ}$ C  
 Storage Temperature Range ..... $-55^{\circ}$ C to  $+105^{\circ}$ C  
 Dimensions (Inch/mm) .....2.40 x 2.28 x 0.5 Inches  
     61.0 x 57.9 x 12.7 mm  
 Case Material: ..... Aluminium  
 \* Isolation Voltage = 1.500VDC: Input/Output,  
 Input/Case, Output/Case

## EXTERNAL OUTPUT TRIM

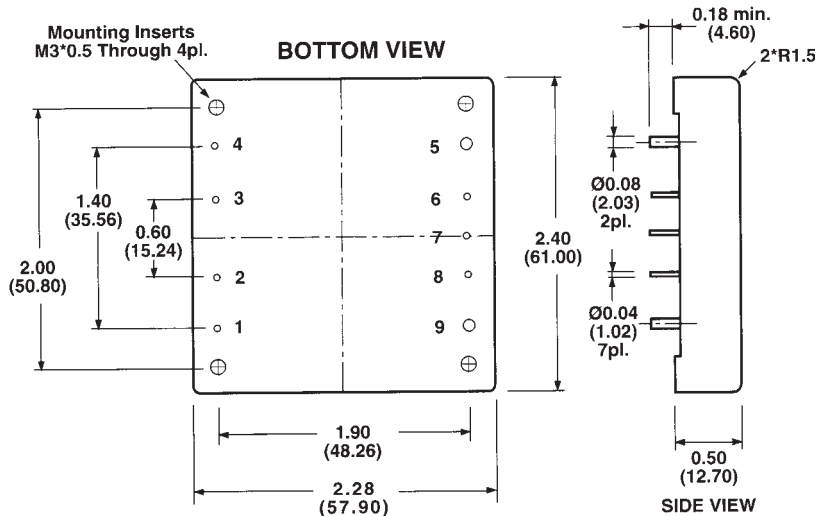


## REMOTE ON/OFF CONTROL



## CASE DIMENSIONS

(in Inches/mm)



## PIN CONNECTION

PIN	FUNCTION
1	+VDCin
2	ON/OFF
3	CASE
4	- VDCin
5	- VDCout
6	- Sense
7	Trim Adj.
8	+ Sense
9	+VDCout

All Specifications typical at Nominal Line,  
 Full Load @25 $^{\circ}$ C unless otherwise noted  
 © TECHNO-PROJEKT 2006