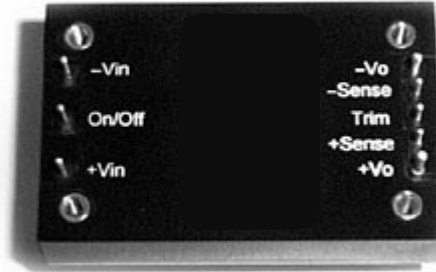


- 4:1 Input Range
- Efficiency to 88%
- Quarter-brick Package
- OTP/ OCP/ OVP
- continuous short circuit Protection



Model Number	Input Voltage	Output Voltage	Output Current	Input No Load	Current Full Load	% Eff.
TPQ100W-24S3.3	9 – 36 V	3.3 VDC	30 A	120 mA	4797 mA	86
TPQ100W-24S05	9 – 36 V	5 VDC	20 A	120 mA	4817 mA	87
TPQ100W-24S12	9 – 36 V	12 VDC	8.3 A	80 mA	4798 mA	87
TPQ100W-24S15	9 – 36 V	15 VDC	6.7 A	80 mA	4841 mA	87
TPQ100W-24S24	9 – 36 V	24 VDC	4.17 A	80 mA	4793 mA	87
TPQ100W-48S3.3	18 – 75 V	3.3 VDC	30 A	60 mA	2344 mA	88
TPQ100W-48S05	18 – 75 V	5 VDC	20 A	60 mA	2367 mA	88
TPQ100W-48S12	18 – 75 V	12 VDC	8.3 A	30 mA	2358 mA	88
TPQ100W-48S15	18 – 75 V	15 VDC	6.7 A	30 mA	2379 mA	88
TPQ100W-48S24	18 – 75 V	24 VDC	4.17 A	30 mA	2369 mA	88

All Specifications are Typical at Nominal Line, Full load, and 25°C Unless Otherwise Noted / © TP 2012

INPUT SPECIFICATIONS

INPUT UNDER-VOLTAGE LOCKOUT.....	24Vin power down8.0V typ
	24Vin power up.....8.8V typ
	48Vin power down16V typ
	48Vin power up....17V typ
INPUT SURGE VOLTAGE (100ms max.)	24Vin 50Vdc max
	48Vin 100Vdc max

POSITIVE LOGIC REMOTE ON/OFF CONTROL

Logic Compatibility	Open Collector TTL, ref. to $-V_{in}$
Module ON	> 3.5V to 75V or Open Circuit
Module OFF	<1.2 Vdc

INPUT FILTER..... PI Type

OUTPUT SPECIFICATIONS

Voltage Accuracy.....	$\pm 1.5\%$ max
Ripple and Noise, 20MHz BW	$V_o = 3,3V \ \& \ 5V$ max. 100mVpp.
	$V_o = 12V \ \& \ 15V$ max. 150mVpp.
	$V_o = 24V$ max. 240mVpp.
Temperature Coefficient	$\pm 0.03\%/C$ max
Line Regulation	$\pm 0.2\%$.
Load Regulation	$\pm 0.2\%$.
External Trim Adj. Range	$\pm 10\%$
Short Circuit Protection	continuous
Over Voltage Protection % V_o nom.....	115 – 140%
Current Limit	110% - 160% Nominal Output

GENERAL SPECIFICATIONS

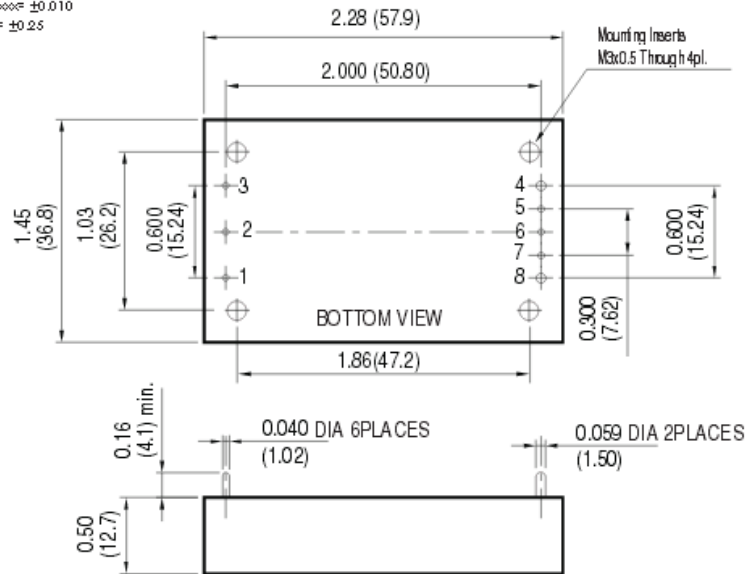
ISOLATION VOLTAGE.....	1500VDC max.
ISOLATION RESISTANCE	10 MOhm
SWITCHING FREQUENCY.....	250KHz typ.
OPERATING TEMPERATURE RANGE.....	-40°C TO +100°C
THERMAL SHUT DOWN; CASE TEMPERATURE	110°Cmax.
STORAGE TEMPERATURE RANGE.....	-40°C TO +105°C
CASE MATERIAL	Aluminium base plate with plastic case
DIMENSIONS	1,45×2,28×0.50 INCHES (36.8 × 57.9 × 12.7mm)

NOTE:

1. LINE REGULATION: Measured From High Line To Low Line
2. LOAD REGULATION: Measured From Full Load To min Load
3. An external input capacitor 47 μ F for 48V $_{in}$ -models are recommended to reduce input ripple voltage
4. Suffix "C" to the Model Number with Clear Mounting Insert (3.2mm Dia.)

MECHANICAL SPECIFICATIONS

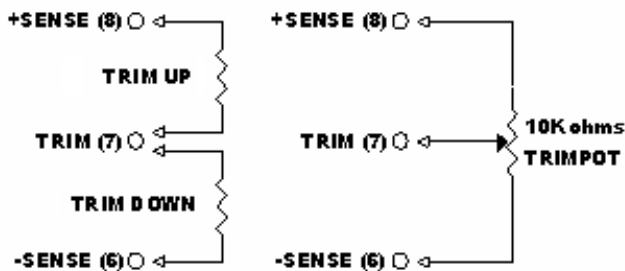
All Dimensions in Inches (mm)
Tolerance Inches: XXX ±0.02, XXXX ±0.010
Millimeters: XX ±0.5, XXX ±0.25



Pin	Function
1	+Vin
2	ON/OFF
3	-Vin
4	-Vout
5	-Sense
6	Trim
7	+Sense
8	+Vout

External Output TRIM

REMOTE ON/OFF CONTROL



Logic Compatibility
 Modul ON >+3.5 to 75VDC or Open Circuit
 Module OFF <1.2 Vdc

