

- **4:1 Input Range**
- **Efficiency to 91%**
- **Six-sided Shield Metal Case**
- **continuous short circuit Protection**
- **Over Current Protection**
- **Input Under Voltage Protection**



Model Number	Input Voltage	Output Voltage	Output Current	Input Current		% Eff.
				No Load	Full Load	
TPQ40W-24S3.3	9 – 36 V	3.3 VDC	10 A	8 mA	1528 mA	90
TPQ40W-24S05	9 – 36 V	5 VDC	8 A	8 mA	1842 mA	90
TPQ40W-24S12	9 – 36 V	12 VDC	3.33 A	10 mA	1832 mA	91
TPQ40W-24S15	9 – 36 V	15 VDC	2.66 A	10 mA	1842 mA	90
TPQ40W-24D12	9 – 36 V	± 12VDC	± 1.66 A	10 mA	1873 mA	89
TPQ40W-24D15	9 – 36 V	± 15VDC	± 1.33 A	10 mA	1862 mA	89
TPQ40W-48S3.3	18 – 75 V	3.3 VDC	10 A	6 mA	764 mA	90
TPQ40W-48S05	18 – 75 V	5 VDC	8 A	6 mA	921 mA	90
TPQ40W-48S12	18 – 75 V	12 VDC	3.33 A	8 mA	921 mA	90
TPQ40W-48S15	18 – 75 V	15 VDC	2.66 A	8 mA	921 mA	90
TPQ40W-48D12	18 – 75 V	±12VDC	± 1.66 A	8 mA	932 mA	89
TPQ40W-48D15	18 – 75 V	±12VDC	± 1.33 A	8 mA	926 mA	90

All Specifications are Typical at Nominal Line, Full load, and 25°C Unless Otherwise Noted / © TP 2013

INPUT SPECIFICATIONS

INPUT UNDER-VOLTAGE LOCKOUT.....	24Vin power down8.0V typ
	24Vin power up....8.5V typ
	48Vin power down 16V typ
	48Vin power up.... 17V typ
INPUT SURGE VOLTAGE (100ms max)	24V50VDC max
	48V 100VDC max
POSITIVE LOGIC REMOTE ON/OFF CONTROL	
Logic Compatibility	Open Collector TTL, ref. to –Vin
Module ON	> 3.5V to 75V or Open Circuit
Module OFF.....	<1.8 Vdc
INPUT FILTER.....	PI Type

OUTPUT SPECIFICATIONS

Voltage Accuracy.....		±1.5% max
Ripple and Noise, 20MHz BW	Vo = 3,3V & 5V.....	max. 100mVpp.
	Vo = 12V & 15V.....	max. 150mVpp.
Temperature Coefficient		±0.02%/C max
Line Regulation ¹⁾		±0.2%.
Load Regulation ²⁾		±0.5%.
External Trim Adj. Range	(single output only)	±10%
Short Circuit Protection		continuous (Hiccup Mode)
Over Voltage Protection		Zener Diode
Current Limit		110% - 160% Nominal Output

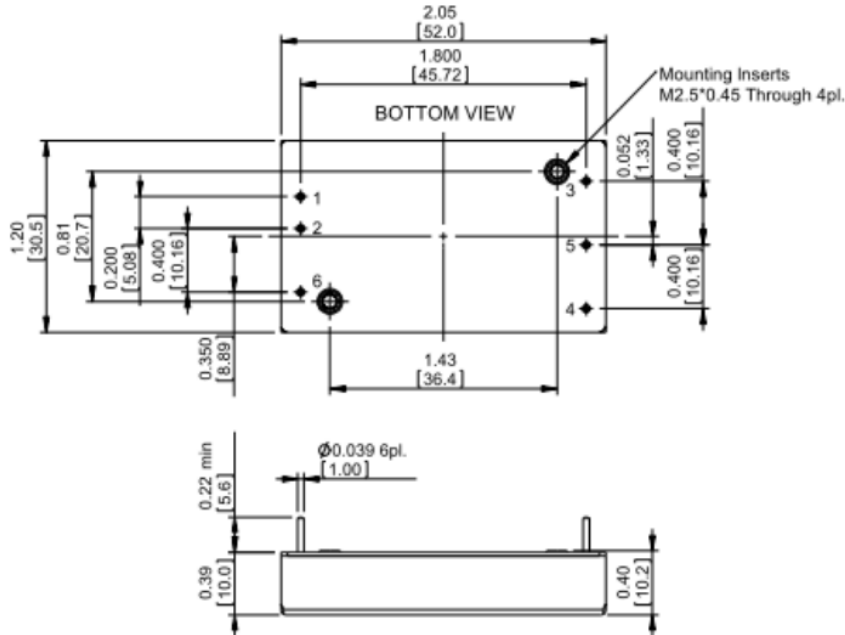
GENERAL SPECIFICATIONS

ISOLATION VOLTAGE.....	Input/ Output	1500VDC min
	Input/ Case	1000VDC min
	Output/ Case	1000VDC min
ISOLATION RESISTANCE		10 MOhm
ISOLATION CAPACITANCE	Input/ Output	1500pF typ
	Input/ Case	1000pF typ
	Output/ Case	1000pF typ
SWITCHING FREQUENCY.....		300KHz typ.
OPERATING TEMPERATURE RANGE.....		-40°C TO +85°C
CASE TEMPERATURE ³⁾		Tc 105°Cmax.
THERMAL SHUT DOWN		Tc 110°Cmax.
STORAGE TEMPERATURE RANGE.....		-55°C TO +125°C
CASE MATERIAL		Aluminium
DIMENSIONS	2,05×1,20×0,40 INCHES (52.0 × 30.5 × 10.2mm)	
WEIGHT		36g

NOTE:

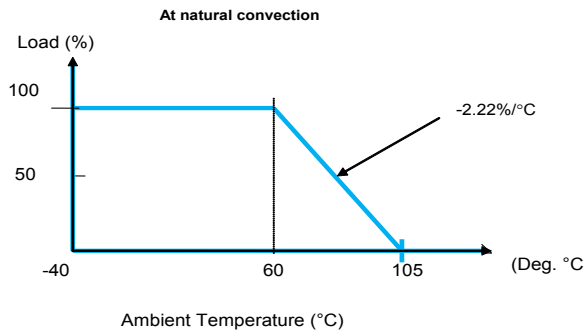
1. LINE REGULATION: Measured From High Line To Low Line
2. LOAD REGULATION: Measured From Full Load To Zero Load
3. Max case temperature under any operating condition should not be exceeded 105°C

MECHANICAL SPECIFICATIONS

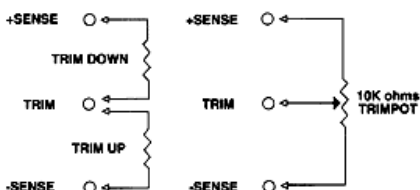


PIN CONNECTION		
PIN	Single Output	Dual Output
1	+V Input	+V Input
2	-V Input	-V Input
3	+V Output	+V Output
4	Trim	-V Output
5	-V Output	Common
6	Remote ON / OFF	

POWER DERATING



External Output TRIM REMOTE ON/OFF CONTROL



Logic Compatibility Open collector TTL refer to -Input
 Modul ON > 3.5V or Open Circuit
 Modul OFF <1.2 Vdc