

- 4:1 Input Range
- Efficiency to 88%
- Single/ Dual Output
- Overcurrent Protection
- Overvoltage-Protection
- continuous short circuit Protection
- Remote ON/OFF
- Without Tantal Capacitors inside



Model Number	Input Voltage	Output Voltage	Output Current	Input No Load	Current Full Load	% Eff.
TPQ15W-24S33	9 -36 V	3.3 VDC	4000 mA	60 mA	632 mA	87
TPQ15W-24S05	9 -36 V	5 VDC	3000 mA	70 mA	718 mA	87
TPQ15W-24S12	9 -36 V	12 VDC	1250 mA	30 mA	718 mA	87
TPQ15W-24S15	9 -36 V	15 VDC	1000 mA	30 mA	710 mA	88
TPQ15W-24D05	9 -36 V	±5 VDC	±1500mA	30 mA	735 mA	85
TPQ15W-24D12	9 -36 V	±12 VDC	±625mA	30 mA	718 mA	87
TPQ15W-24D15	9 -36 V	±15 VDC	±500mA	30 mA	710 mA	88
TPQ15W-48S33	18 -75 V	3.3 VDC	4000 mA	40 mA	313 mA	88
TPQ15W-48S05	18 -75 V	5 VDC	3000 mA	40 mA	355 mA	88
TPQ15W-48S12	18 -75 V	12 VDC	1250 mA	20 mA	359 mA	87
TPQ15W-48S15	18 -75 V	15 VDC	1000 mA	20 mA	359 mA	87
TPQ15W-48D05	18 -75 V	±5 VDC	±1500mA	20 mA	368 mA	85
TPQ15W-48D12	18 -75 V	±12 VDC	±625mA	20 mA	359 mA	87
TPQ15W-48D15	18 -75 V	±15 VDC	±500mA	20 mA	359 mA	87

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

INPUT SPECIFICATIONS

INPUT UNDER-VOLTAGE LOCKOUT.....	24Vin power down	8.0V typ
	24Vin power up....	8.8V typ
	48Vin power down	16V typ
	48Vin power up....	17V typ
POSITIVE LOGIC REMOTE ON/OFF CONTROL		
Logic Compatibility	CMOS or Open Collector TTL, ref. to -Vin	
Module ON	>+3.5 to 75VDC or Open Circuit	
Module OFF.....	<1.2 Vdc	
INPUT FILTER.....	LC Type	

OUTPUT SPECIFICATIONS

Voltage Accuracy.....	±1.5% max	
Voltage Balance (Dual)	±2.0% max	
RIPPLE AND NOISE, 20MHz BW	Vo = 3,3V & 5V.....	max. 75mVpp.
	Vo = 12V & 15V.....	max. 100mVpp.
Temperature Coefficient	±0.03%/C max	
LINE REGULATION	single.....	±0.2%.
	Dual	±0.5%.
LOAD REGULATION	single.....	±0.2%.
	Dual.....	±1.0%.
Cross Regulation (Dual) Load Cross Variation 10%/100%.....	±5.0%.	
EXTERNAL TRIM ADJUSTABLE RANGE ...(single output only).....	±10%	
SHORT CIRCUIT PROTECTION	continuous	
OVER VOLTAGE PROTECTION.....	Zener	
Current Limit	110% - 160% Nominal Input	

GENERAL SPECIFICATIONS

ISOLATION VOLTAGE.....	1500VDC max.	
SWITCHING FREQUENCY.....	400KHz typ.	
OPERATING TEMPERATURE RANGE.....	-40°C TO +85°C	
DERATING, ABOVE 68°C	LINEARY TO ZERO POWER AT 105 °C	
COOLING.....	Natural Convection, 20ft./min.(0.1m/s)	
CASE TEMPERATURE	105°Cmax.	
STORAGE TEMPERATURE RANGE.....	-55°C TO +125°C	
CASE MATERIAL	Black Coated Copper with Non-Conductive Base	
DIMENSIONS	DIP	1,0×1,0×0.4 INCHES (25.4 × 25.4 × 10.2mm)
	SMD	1,0×1,0×0.47 INCHES (25.4 × 25.4 × 11.94mm)

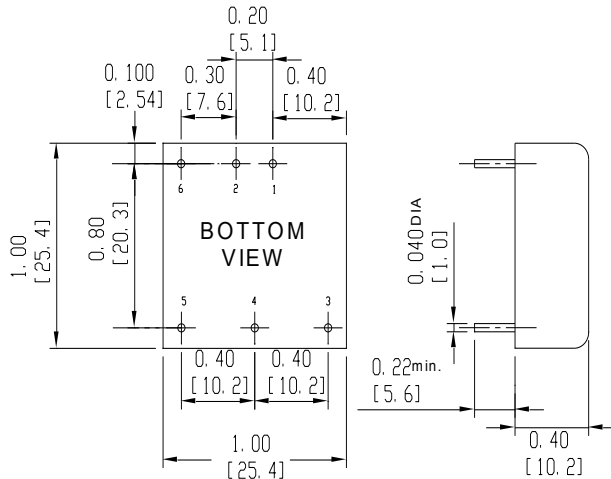
NOTE:

1. LINE REGULATION: Measured From High Line To Low Line
2. LOAD REGULATION: Measured From Full Load To 10% Load
3. Maximum Case Temperature Under Any Operating Condition Should Not Be Exceeded 105°C
4. Output ripple and noise is measured with 10µF tantalum and 1µF Ceramic capacitor across output
5. Suffix "S" to the Model Number for SMD-Package

MECHANICAL SPECIFICATIONS

Tolerances Inches: X.XX= ± 0.04 , X.XXX= ± 0.010

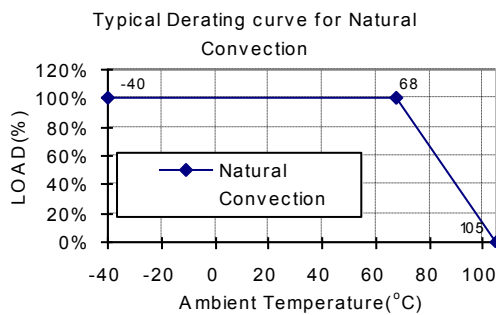
Millimeters: X.X= ± 0.0 , X.XX= ± 0.25



PIN CONNECTION

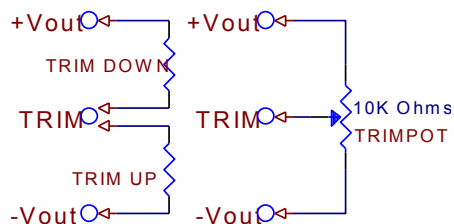
Pin	DIP Function
1	+Input
2	-Input
3	+V Output
4	Trim
5	-V Output
6	Remote

Power Derating



Maximum total power from all outputs is limited to 15Watt but no output should be allowed to exceed its maximum current.

External Output TRIM



REMOTE ON/OFF CONTROL

Logic Compatibility
Modul ON
Module OFF
Control common

CMOS or Open collector TTL
>+3.5 to 75VDC or Open Circuit
<1.2 Vdc
reference to -Vin