

- 1"x1"-Package
- 2:1 Input Range
- Efficiency 87%
- Overcurrent Protection
- continuous short circuit Protection
- Remote ON/OFF



Model Number	Input Voltage	Output Voltage	Output Current	Input No Load	Current Full Load	% Eff.
TPQ10-12S3.3	9-18 VDC	3.3 VDC	2500 mA	25 mA	838 mA	82
TPQ10-12S05	9-18 VDC	5 VDC	2000 mA	25 mA	980 mA	85
TPQ10-12S12	9-18 VDC	12 VDC	833 mA	25 mA	957 mA	87
TPQ10-12S15	9-18 VDC	15 VDC	666 mA	25 mA	956 mA	87
TPQ10-24S3.3	18-36 VDC	3.3 VDC	2500 mA	20 mA	419 mA	82
TPQ10-24S05	18-36 VDC	5 VDC	2000 mA	20 mA	490 mA	85
TPQ10-24S12	18-36 VDC	12 VDC	833 mA	20 mA	478 mA	87
TPQ10-24S15	18-36 VDC	15 VDC	666 mA	20 mA	478 mA	87
TPQ10-48S3.3	36-75 VDC	3.3 VDC	2500 mA	20 mA	212 mA	81
TPQ10-48S05	36-75 VDC	5 VDC	2000 mA	20 mA	245 mA	85
TPQ10-48S12	36-75 VDC	12 VDC	833 mA	20 mA	239 mA	87
TPQ10-48S15	36-75 VDC	15 VDC	666 mA	20 mA	239 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 LOCK OUT	12Vin	power up	9V
	12Vin	power down	8V
	24Vin	power up	17V
	24Vin	power down	16V
	48Vin	power up	34V
	48Vin	power down	32V

INPUT FILTER..... PI Network

OUTPUT SPECIFICATIONS

VOLTAGE ACCURACY.....	±1.5% max
RIPPLE AND NOISE, 20MHz BW	max. 50mVpp.
LINE REGULATION ¹	±0.2%.
LOAD REGULATION ²	±0.2%.
EXTERNAL TRIM ADJUSTABLE RANGE	±10%
SHORT CIRCUIT PROTECTION	continuous
OVER VOLTAGE PROTECTION.....	Zener or TVS clamp
Current Limit	110% - 140% Nominal Output

GENERAL SPECIFICATIONS

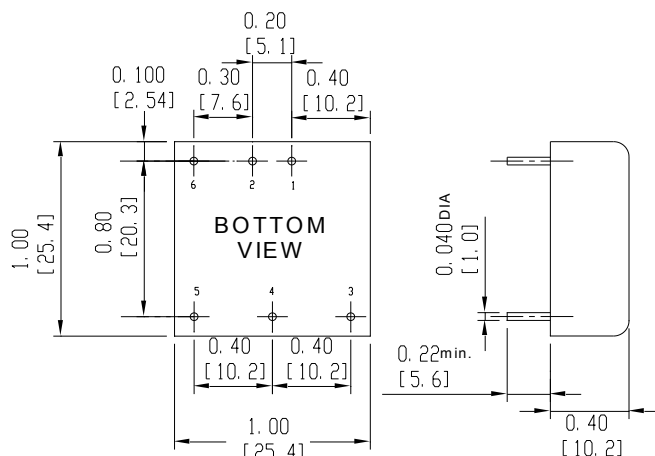
ISOLATION VOLTAGE.....	1500VDC max.
ISOLATION RESISTANCE	1000 MOhm
SWITCHING FREQUENCY.....	350KHz typ.
OPERATING TEMPERATURE RANGE.....	-40°C TO +85°C
DERATING, ABOVE 71°C	LINEARY TO ZERO POWER AT 100 °C
COOLING.....	Natural Convection, 20ft./min.(0.1m/s)
CASE TEMPERATURE	105°Cmax.
STORAGE TEMPERATURE RANGE.....	-55°C TO +125°C
CASE MATERIAL	Black Coated Copper with Non-Conductive Base
DIMENSIONS	1,0×1,0×0.4 INCHES (25.4 × 25.4 × 10.2mm)

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

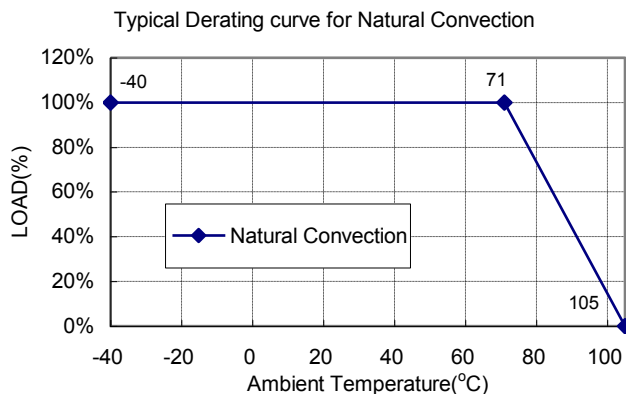
MECHANICAL SPECIFICATIONS

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

DERATING CURVE



REMOTE ON/OFF

Logic Compatibility Open collector TTL
 Refer to -Vin
 Modul ON > 5.5V or Open Circuit
 Module OFF < 1.2 Vdc

EXT.OUTPUT TRIM

