

- 1"x1"-Package
- EMI meets EN55022 Class A
- 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.
TPQ10-05S3.3	4.7-9 VDC	3.3 VDC	2500 mA	150 mA	1987 mA	87
TPQ10-05S05	4.7-9 VDC	5 VDC	2000 mA	150 mA	2300 mA	87
TPQ10-05S12	4.7-9 VDC	12 VDC	833 mA	50 mA	2300 mA	87
TPQ10-05S15	4.7-9 VDC	15 VDC	666 mA	50 mA	2300 mA	87
TPQ10-05D05	4.7-9 VDC	±5 VDC	±1000 mA	50 mA	2353 mA	85
TPQ10-05D12	4.7-9 VDC	±12 VDC	±416 mA	50 mA	2295 mA	87
TPQ10-05D15	4.7-9 VDC	±15 VDC	±333 mA	50 mA	2300 mA	87
TPQ10-12S3.3	9-18 VDC	3.3 VDC	2500 mA	30 mA	838 mA	82
TPQ10-12S05	9-18 VDC	5 VDC	2000 mA	30 mA	980 mA	85
TPQ10-12S12	9-18 VDC	12 VDC	830 mA	30 mA	957 mA	87
TPQ10-12S15	9-18 VDC	15 VDC	666 mA	35 mA	956 mA	87
TPQ10-12D05	9-18 VDC	±5 VDC	±1000 mA	45 mA	980 mA	85
TPQ10-12D12	9-18 VDC	±12 VDC	±415 mA	45 mA	957 mA	87
TPQ10-12D15	9-18 VDC	±15 VDC	±333 mA	45 mA	957 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
TPQ10-24D05	18-36 VDC	±5 VDC	±1000 mA	30 mA	490 mA	85
TPQ10-24D12	18-36 VDC	±12 VDC	±415 mA	25 mA	478 mA	87
TPQ10-24D15	18-36 VDC	±15 VDC	±333 mA	25 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
TPQ10-48D05	36-75 VDC	±5 VDC	±1000 mA	20 mA	245 mA	85
TPQ10-48D12	36-75 VDC	±12 VDC	±415 mA	20 mA	239 mA	87
TPQ10-48D15	36-75 VDC	±15 VDC	±333 mA	20 mA	239 mA	87

All Specifications are Typical at Nominal Line, Full load, and 25°C Unless Otherwise Noted / © TECHNO-PROJEKT 2015

INPUT SPECIFICATIONS

UNDER VOLTAGE LOCKOUT.....	5Vin power up: 4.4V	power down: 4.2V
	12Vin power up: 8.4V	power down: 8.0V
	24Vin power up: 17V	power down: 16V
	48Vin power up: 34V	power down: 32V
INPUT SURGE VOLTAGE (100ms max)	5Vin	12VDC max
	12Vin	25VDC max
	24Vin	50VDC max
	48Vin	100VDC max
INPUT FILTER.....	PI Type	

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

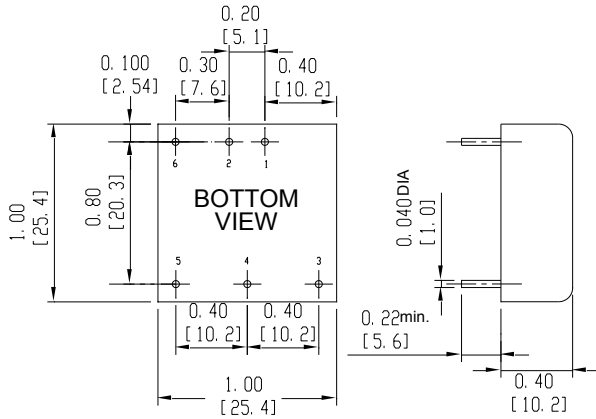
ISOLATION VOLTAGE.....	1500VDC max.
ISOLATION RESISTANCE	1000 MOhm
SWITCHING FREQUENCY.....	350KHz typ.
OPERATING TEMPERATURE RANGE.....	-40°C TO +85°C
DERATING, ABOVE 71°C	LINEARY TO ZERO POWER AT 105 °C
COOLING.....	Natural Convection
CASE TEMPERATURE	105°Cmax.
STORAGE TEMPERATURE RANGE.....	-55°C 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

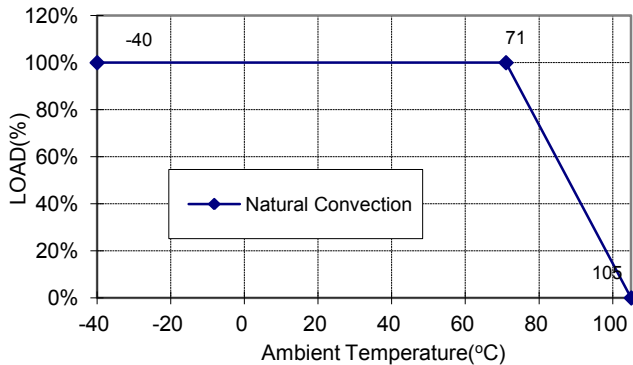
Tolerances Inches: X.XX= ± 0.04 , X.XXX= ± 0.010
 Millimeters: X.X= ± 0.0 , X.XX= ± 0.25



PIN CONNECTION		
Pin	DIP Function	
	Single	Dual
1	+Input	+Input
2	-Input	-Input
3	+V Output	+V Output
4	Trim	Common
5	-V Output	-V Output
6	Remote	Remote

DERATING CURVE

Typical Derating curve for Natural Convection



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

