

- 4:1 Input Range
- Efficiency to 90%
- 2" x 1" Package
- continuous short circuit Protection
- Ext. Output Trim



Model Number	Input Voltage	Output Voltage	Output Current	Input No Load	Current Full Load	% Eff.
TP20WI-24S3.3	9 -36 V	3.3 VDC	5500 mA	55 mA	869 mA	87
TP20WI-24S05	9 -36 V	5 VDC	4000 mA	55 mA	926 mA	90
TP20WI-24S12	9 -36 V	12 VDC	1670 mA	55 mA	928 mA	90
TP20WI-24S15	9 -36 V	15 VDC	1330 mA	55 mA	924 mA	90
TP20WI-24D05	9 -36 V	±5 VDC	±2000 mA	70 mA	937 mA	89
TP20WI-24D12	9 -36 V	±12 VDC	±835 mA	35 mA	947 mA	88
TP20WI-24D15	9 -36 V	±15 VDC	±666 mA	35 mA	947 mA	88
TP20WI-48S3.3	18 – 75 V	3.3 VDC	5500 mA	25 mA	430 mA	88
TP20WI-48S05	18 – 75 V	5 VDC	4000 mA	25 mA	463 mA	90
TP20WI-48S12	18 – 75 V	12 VDC	1670 mA	25 mA	464 mA	90
TP20WI-48S15	18 – 75 V	15 VDC	1330 mA	25 mA	462 mA	90
TP20WI-48D05	18 – 75 V	±5 VDC	±2000 mA	35 mA	468 mA	89
TP20WI-48D12	18 – 75 V	±12 VDC	±835 mA	25 mA	474 mA	88
TP20WI-48D15	18 – 75 V	±15 VDC	±666 mA	25 mA	474 mA	88

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

### INPUT SPECIFICATIONS

INPUT UNDER-VOLTAGE LOCKOUT.....	24Vin power down.....	8.0V typ
	24Vin power up .....	8.8V typ
	48Vin power down .....	17V typ
	48Vin power up.....	16V typ
INPUT SURGE VOLTAGE (100ms max) .....	24V .....	50VDC max
	48V .....	100VDC max
INPUT FILTER.....		PI Type

### OUTPUT SPECIFICATIONS

Voltage Accuracy.....	±1.5% max
RIPPLE AND NOISE, 20MHz BW .....	max. 75mVpp.
Temperature Coefficient .....	±0.03%/C max
Line Regulation <sup>1</sup> .....	(single) ..... ±0.2%.
	(dual) ..... ±0.5%.
Load Regulation <sup>2</sup> .....	±1.0%.
Cross Regulation (dual output); load cross variation 25%/100% .....	±5.0%.
Over Voltage Protection.....	(Zenerdiode)
Short Circuit Protection .....	continuous
EXTERNAL TRIM ADJUSTABLE RANGE .....	±10%
Start up time .....	5ms typ.

### GENERAL SPECIFICATIONS

ISOLATION VOLTAGE.....	1500VDC max.
ISOLATION RESISTANCE .....	10 MOhm
SWITCHING FREQUENCY.....	350KHz typ.
OPERATING TEMPERATURE RANGE.....	-40°C TO +85°C
DERATING, ABOVE 71°C .....	LINEARY TO ZERO POWER AT 100 °C
THERMAL SHUT DOWN; CASE TEMPERATURE .....	105°Cmax.
STORAGE TEMPERATURE RANGE.....	-55°C TO +125°C
CASE MATERIAL .....	Black Coated Copper with Non-Conductive Base
DIMENSIONS .....	2,00×1,00×0,40 INCHES (50.8 × 25.4 × 10.2mm)

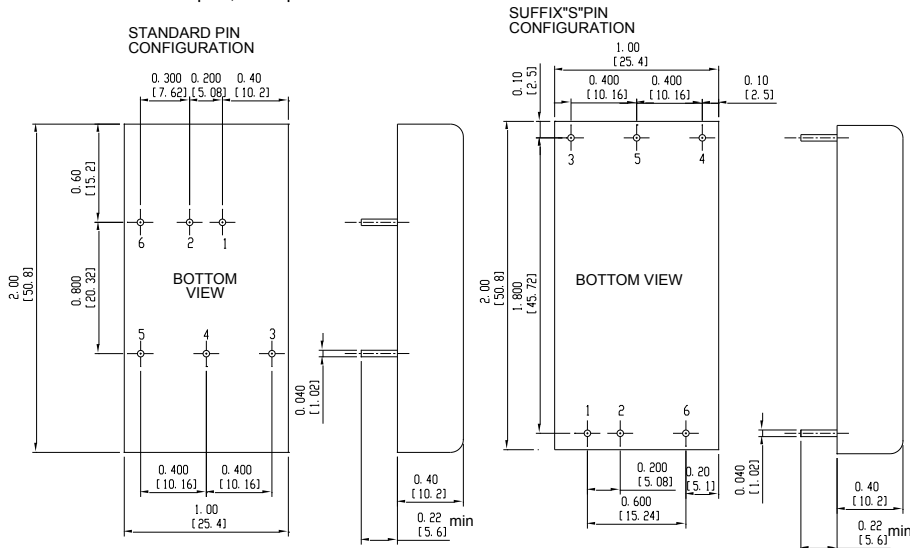
#### NOTE:

1. Measured From High Line To Low Line
2. Measured From Full Load To 10% Load
3. Maximum case temperature under any operating conditions should not exceed 105°C
4. Suffix "S" for Model Number with Alternative Pin Configuration (only for single output)

### MECHANICAL SPECIFICATIONS

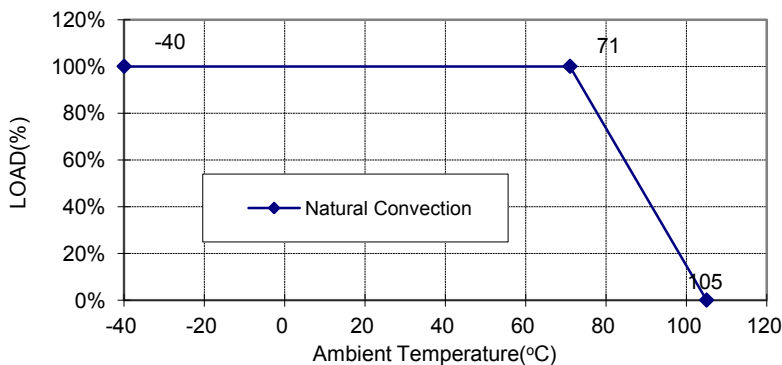
NOTE: Pin Size = 0.02" (0.5mm) Ø

All Dimensions In Inches (mm)  
Tolerances Inches .XX= ±0.4 , .XXX= ±0.10  
Millimeters .XX= ±0.0 , .XXX= ±0.25



### POWER DERATING

Typical Derating curve for Natural Convection



### REMOTE ON/OFF CONTROL

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