

- Up to 425VDC Input
- Efficiency to 91%
- Full-brick Package
- OCP/ OVP/ OTP
- continuous short circuit Protection
- Remote ON/OFF



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		EFF. (%)	Cap. Load max
			MIN.	MAX.	NO LOAD	FULL LOAD		
TP600P-300S12	180-425VDC	12VDC	0mA	50 A	100mA	2.25 A	89	10mF <sup>(2)</sup>
TP600P-300S24	180-425VDC	24VDC	0mA	25 A	100mA	2.2 A	91	10mF <sup>(2)</sup>
TP600P-300S48	180-425VDC	48VDC	0mA	12.5 A	100mA	2.2 A	91	10mF <sup>(2)</sup>

### NOTE :

1. Nominal Input Voltage 300 VDC
2. The output terminal of all models required a minimum capacitor 470uF to maintain specified regulation.

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

## INPUT SPECIFICATIONS

INPUT VOLTAGE RANGE .....	300V .....	180V – 425V
INPUT OVER VOLTAGE PROTECTION .....	turn on .....	480V
	turn off .....	500V
UNDER VOLTAGE LOCKOUT .....	power up .....	175V
	power down .....	160V
INPUT FILTER.....		C Type

Technische Änderungen vorbehalten / Technical changes reserved

TECHNO-PROJEKT GmbH • RHOENSTRASSE 3 • D - 97791 OBERINN  
 TEL + 49 - (0)9356- 97 21 20 • FAX + 49 - (0)9356 – 97 21 21  
[www.techno-projekt.de](http://www.techno-projekt.de) • [vertrieb@techno-projekt.de](mailto:vertrieb@techno-projekt.de)

### OUTPUT SPECIFICATIONS

Voltage Accuracy.....		±1.5% max
Ripple and Noise, 20MHz BW .....	Vo = 12V.....	max. 120mVpp.
	Vo = 24V.....	max. 240mVpp.
	Vo = 48V.....	max. 480mVpp.
Temperature Coefficient .....		±0.03%/C max
Line Regulation .....		±0.2%.
Load Regulation .....		±0.5%.
External Trim Adj. Range .....		60 - 110%
Short Circuit Protection .....		continuous
Over Voltage Protection.....		115 – 140%
Current Limit .....		105% - 140% Nominal Output

### GENERAL SPECIFICATIONS

ISOLATION VOLTAGE.....	Input/ Output .....	3000VAC min.
	Input/ Case .....	2500VAC min.
	Output/ Case .....	500VAC min.
ISOLATION RESISTANCE .....		100 MOhm
SWITCHING FREQUENCY.....		200KHz typ.
OPERATING TEMPERATURE RANGE.....		-40°C TO +100°C
THERMAL SHUT DOWN; CASE TEMPERATURE .....		110°Cmax.
STORAGE TEMPERATURE RANGE.....		-55°C TO +105°C
CASE MATERIAL .....		Aluminium Base Plate with Plastic Case
DIMENSIONS .....		4,60×2,40×0.50 INCHES (116.8 × 61.0 × 12.7mm)

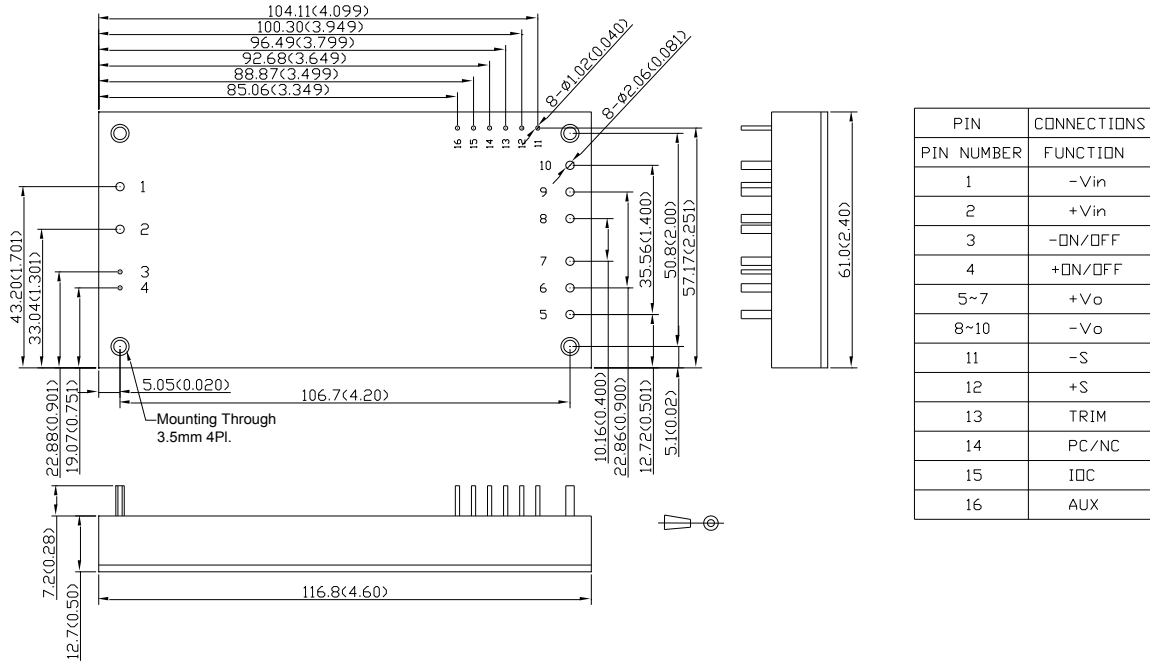
#### NOTE:

1. LINE REGULATION: Measured From High Line To Low Line
2. LOAD REGULATION: Measured From Full Load To Zero Load
3. Output adjustment circuit and trim equations show as figure 1 and figure 2
4. Output ripple and noise is measured with 10µF tantalum and 1µF Ceramic capacitor across output

Technische Änderungen vorbehalten / Technical changes reserved

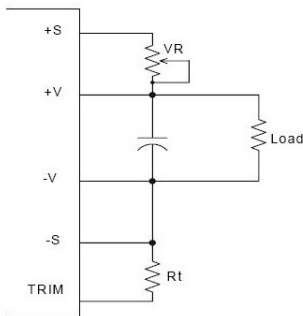
### MECHANICAL SPECIFICATIONS

All Dimensions In mm(Inches)  
 Tolerances mm: .X±0.5 .XX±0.25 ±0.25  
 Inches: .XX±0.02 .XXX±0.010 ±0.01



### External Output TRIM

### ON/OFF-Config.



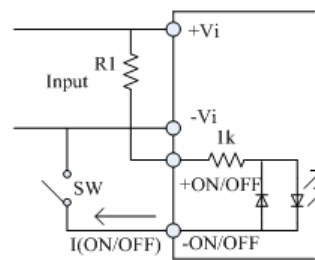
The output voltage can be determined by below equations:

$$Vf = \frac{1.24 \times \left( \frac{Rt \times 33}{Rt + 33} \right)}{7.68 + \frac{Rt \times 33}{Rt + 33}}$$

$$Vout = (Vo + VR) \times Vf$$

Unit: KΩ  
 Rt: 6.8 KΩ  
 Vo: Nominal Output Voltage

Fig.1 The schematic of output voltage adjusted by using external resistor and/or variable resistor.



Recommended: Vin ≥ 300V → R1 = 82kΩ (0.5W)

Technische Änderungen vorbehalten / Technical changes reserved