

- **2:1 Input Range**
- **Efficiency to 92%**
- **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		
TP600-24S12	18-36VDC	12VDC	0mA	50 A	150mA	28.09A	88	10mF ⁽²⁾
TP600-24S24	18-36VDC	24VDC	0mA	25 A	150mA	27.78 A	90	5mF ⁽²⁾
TP600-24S28	18-36VDC	28VDC	0mA	21.5 A	150mA	27.87A	90	5mF ⁽²⁾
TP600-24S32	18-36VDC	32VDC	0mA	19 A	150mA	27.84A	91	5mF ⁽²⁾
TP600-24S48	18-36VDC	48VDC	0mA	12.5 A	200mA	27.47A	91	5mF ⁽²⁾
TP600-48S12	36-75VDC	12VDC	0mA	50 A	90mA	13.89A	90	10mF ⁽²⁾
TP600-48S24	36-75VDC	24VDC	0mA	25 A	100mA	13.59A	92	5mF ⁽²⁾
TP600-48S28	36-75VDC	28VDC	0mA	21 A	105mA	16.03A	91	5mF ⁽²⁾
TP600-48S32	36-75VDC	32VDC	0mA	19 A	90mA	13.77A	92	5mF ⁽²⁾
TP600-48S48	36-75VDC	48VDC	0mA	12.5 A	130mA	13.59A	92	5mF ⁽²⁾

NOTE :

1. Nominal Input Voltage 24,48 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 2013

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INPUT SPECIFICATIONS

INPUT UNDER-VOLTAGE LOCKOUT.....	24Vin power down	16V typ
	24Vin power up....	17V typ
	48Vin power down	33V typ
	48Vin power up....	35V typ
OVER VOLTAGE PROTECTION	24Vin turn off	40V.....turn on
	48Vin turn off	80V.....turn on
OPTO ISOLATED REMOTE ON/OFF CONTROL		
INPUT FILTER.....		PI Type

OUTPUT SPECIFICATIONS

Voltage Accuracy.....		±1.5% max
Ripple and Noise, 20MHz BW	Vo = 12V.....	max. 120mVpp.
	Vo = 28V.....	max. 280mVpp.
	Vo = 32V.....	max. 320mVpp.
Temperature Coefficient		±0.03%/C max
Line Regulation		±0.2%.
Load Regulation		±0.2%.
External Trim Adj. Range		60 - 110%
Short Circuit Protection		continuous
Over Voltage Protection.....		115 – 140%
Current Limit		110% - 150% Nominal Output

GENERAL SPECIFICATIONS

ISOLATION VOLTAGE.....	1500VDC max.
ISOLATION RESISTANCE	10 MOhm
SWITCHING FREQUENCY.....	250KHz 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)

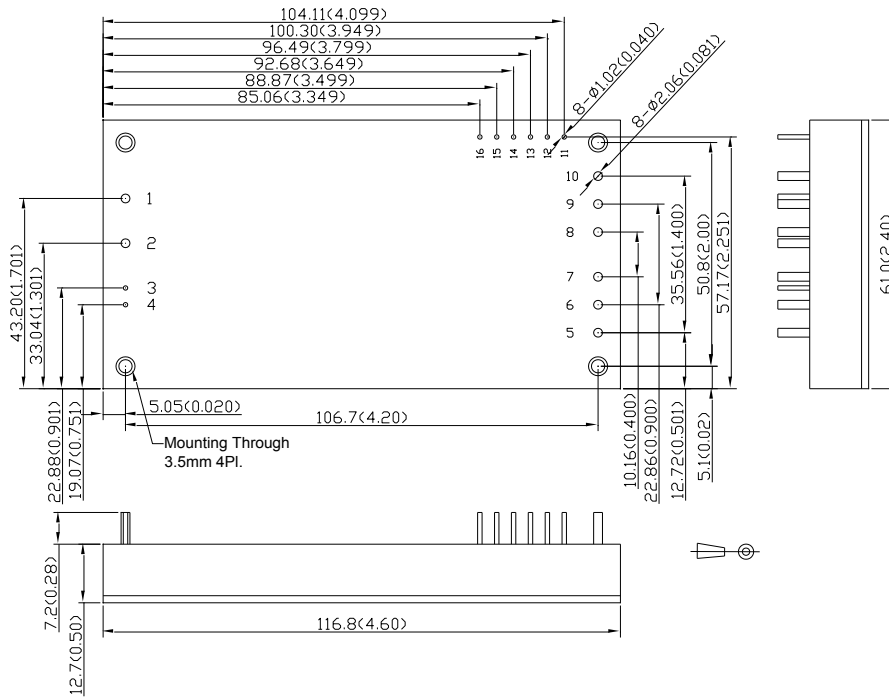
NOTE:

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

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MECHANICAL SPECIFICATIONS

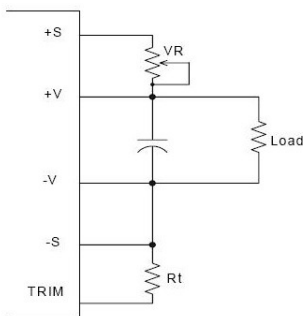
All Dimensions In mm(Inches) Pin
 Tolerances mm: .X±0.5 .XX±0.25 ±0.25
 Inches: .XX±0.02 .XXX±0.010 ±0.01



PIN	CONNECTIONS
PIN NUMBER	FUNCTION
1	-Vin
2	+Vin
3	-ON/OFF
4	+ON/OFF
5~7	+Vo
8~10	-Vo
11	-S
12	+S
13	TRIM
14	PC/NC
15	IDC
16	AUX

External Output TRIM

ON/OFF-Config.



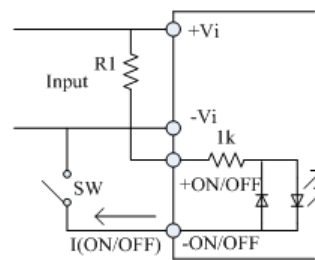
The output voltage can be determined by below equations:

$$V_f = \frac{1.24 \times \left(\frac{R_t \times 33}{R_t + 33} \right)}{7.68 + \frac{R_t \times 33}{R_t + 33}}$$

$$V_{out} = (V_o + VR) \times V_f$$

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

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



Recommended: Vin = 24V → R1 = 3kΩ (0.5W)

$$|I_{R1}| \leq 8mA @ V_i/R_1$$

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