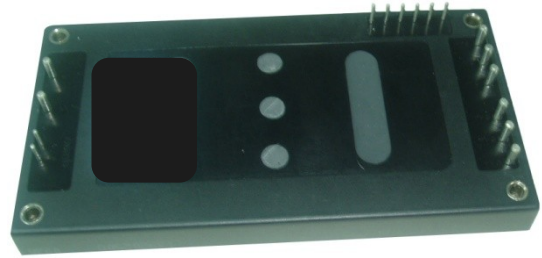


- 4:1 Input Range
- Efficiency to 90%
- Full-brick Package
- OCP/ OVP/ OTP
- continuous short circuit Protection
- Remote ON/OFF
- CE Mark meets 2004/108/ EC



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		EFF. (%)
			MIN.	MAX.	NO LOAD	FULL LOAD	
TP400W-24S05	9-36VDC	5VDC	0mA	80 A	600 mA	19.05A	87
TP400W-24S12	9-36VDC	12VDC	0mA	33.3 A	120 mA	19.36A	86
TP400W-24S24	9-36VDC	24VDC	0mA	16.7 A	120 mA	19.19A	87
TP400W-24S28	9-36VDC	28VDC	0mA	14.3 A	120 mA	19.18A	87
TP400W-24S48	9-36VDC	48VDC	0mA	8.3 A	120 mA	19.19A	86
TP400W-24S05	18-75VDC	5VDC	0mA	80 A	300 mA	9.36A	89
TP400W-24S12	18-75VDC	12VDC	0mA	33.3 A	60 mA	9.41A	88
TP400W-24S24	18-75VDC	24VDC	0mA	16.7 A	60 mA	9.28A	90
TP400W-24S28	18-75VDC	28VDC	0mA	14.3 A	60 mA	9.27A	90
TP400W-24S48	18-75VDC	48VDC	0mA	8.3 A	60 mA	9.27A	89

NOTE : 1. Measured at nominal Input Voltage 24,48 VDC

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

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R1520b

INPUT SPECIFICATIONS

INPUT UNDER-VOLTAGE LOCKOUT.....	24Vin power down	7.5V typ
	24Vin power up....	8.5V typ
	48Vin power down	15V typ
	48Vin power up....	17V typ
OVER VOLTAGE PROTECTION	24Vin turn off	42V.....turn on
	48Vin turn off	83V.....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 = 5V.....	max. 100mVpp.
	Vo = 12V.....	max. 120mVpp.
	Vo = 24V.....	max. 240mVpp.
	Vo = 28V.....	max. 280mVpp.
	Vo = 48V.....	max. 480mVpp.
Temperature Coefficient		±0.03%/C max
Line Regulation		±0.2%.
Load Regulation		±0.2%.
External Trim Adj. Range		80 - 110%
Short Circuit Protection		continuous
Over Voltage Protection.....		115 – 140%
Current Limit		110% - 150% Nominal Output
Start up time		120 ms typ.

GENERAL SPECIFICATIONS

ISOLATION VOLTAGE.....	1500VDC max.
ISOLATION RESISTANCE	10 MOhm
SWITCHING FREQUENCY.....	230KHz 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:

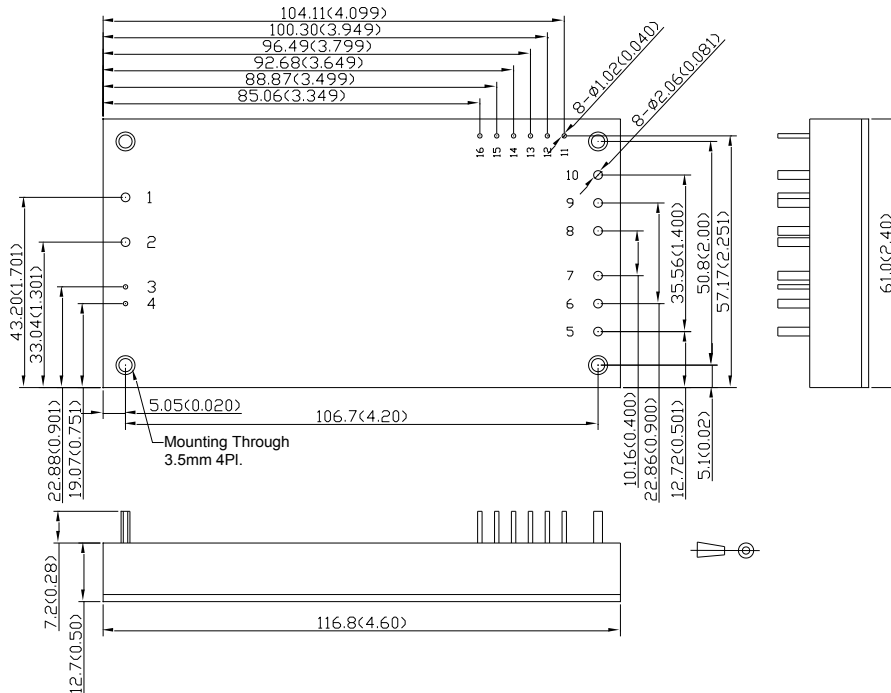
1. LINE REGULATION: Measured From High Line To Low Line
2. LOAD REGULATION: Measured From Full Load To Zero Load
3. Output adjustment circuit and trim equations show as figure 1 and figure 2
4. Output ripple and noise is measured with 10µF tantalum and 1µF Ceramic capacitor across output
5. The output terminal at 12V, 24V, 28V and 48V required a minimum capacitor of 330µF to maintain spec
The output terminal at 5V required a minimum capacitor of 680µF to maintain spec

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R1520b

MECHANICAL SPECIFICATIONS

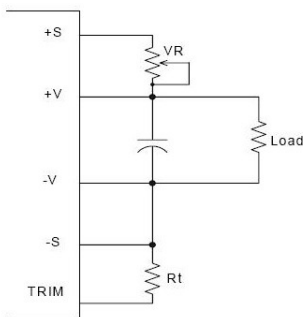
All Dimensions In mm(Inches)
 Tolerances mm: .X±0.5 .XX±0.25 ±0.25
 Inches: .XX±0.02 .XXX±0.010 ±0.01



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.



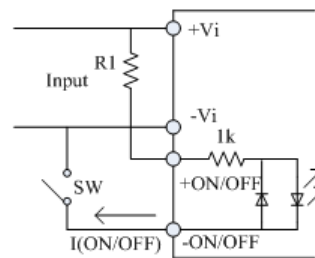
The output voltage can be determined by below equations:

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

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

Unit: KΩ
 Rt: 6.8 KΩ
 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)

$$|IR1| \leq 8mA @ Vi/R1$$

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