

High Voltage Power Supplies

TM Series 0.8kV to 3kV 1.5W

01.034.0544-1



FEATURES

- PCB mountable
- Low ripple, high stability, and well-regulated output
- Low Noise due to 6 -sided metal shielding
- A wide range of input voltage(+11Vdc to +16Vdc)
- External potentiometer or external control voltage programming
- Arc and continuous short circuit protection

SUMMARY

TM Series is a compact, ultra low ripple and well regulated high voltage power supply suitable for various OEM or laboratory application. Electromagnetic shielding is provided through 6-sided metal shielding. All models are provided with arc and continuous short circuit protection for safe, reliable operation.

LINEUP

Output voltage (kVdc)	Output		Model		Ripple (mVp-p)
	Output current (mA)	Minimum load*(Ω)	Positive polar output	Negative polar output	
0 to 0.8	2	200k	TM-0.8P	TM-0.8N	2
0 to 1.1	1.5	370k	TM-1.1P	TM-1.1N	
0 to 1.5	1	750k	TM-1.5P	TM-1.5N	3
0 to 2	0.8	1.25M	TM-2P	TM-2N	7
0 to 3	0.5	3M	TM-3P	TM-3N	20

*Rated output current is not to be drawn at low output voltage range(Output current × Minimum load). Operate with over Minimum load.

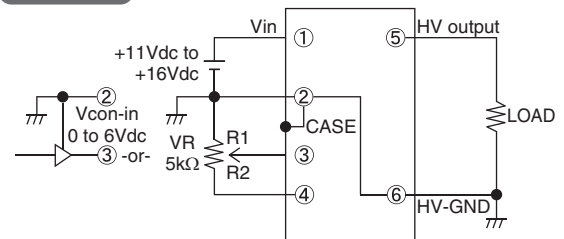
NOTE For extra safety ground the case and @terminal when operation.

SPECIFICATIONS

Input voltage/current	+11 to +16Vdc 250mA max 280mA max (-L2S option)
Output control	By external 5kΩ potentiometer or external control voltage(Vcon-in) 0 to 6 Vdc
Regulation	Line : ±0.01% of max voltage for Vin +12V±1V Load : 0.01% of max voltage for full load change
Stability	0.01%/Hr 0.03%/8Hr
Temperature coefficient	50ppm/°C (-LTc option : 25ppm/°C)
Protection	Overload, arc and continuous output short circuit
Temperature range	Operating : -10°C to +50°C Storage : -25°C to +85°C
Humidity	20 to 80%RH(no condensation)
Weight	120g approx.
Accessory	Insulation sheet

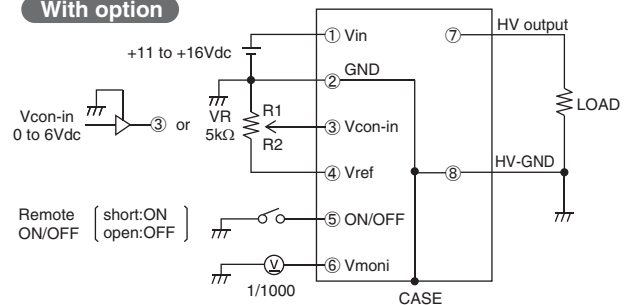
CONNECTION DIAGRAM

Standard

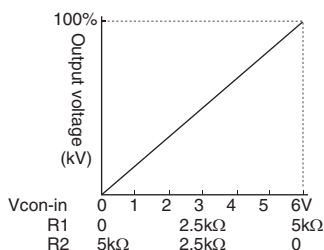


1. PIN ②, ⑥ and case are internally connected, and should be always grounded.
2. Input impedance of Pin ③ is greater than 30KΩ
3. External potentiometer of T.C ≤ 100ppm/°C, PC ≥ ¼W is recommended.

With option



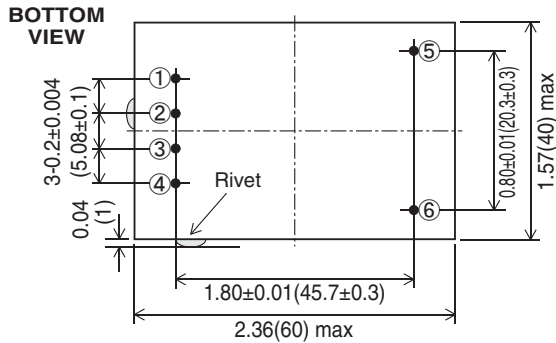
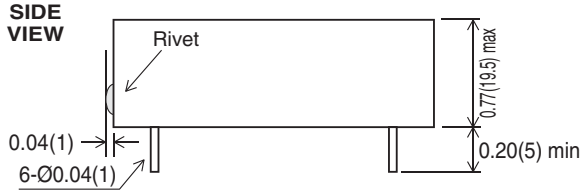
CHARACTERISTICS OF OUTPUT VOLTAGE SETTING



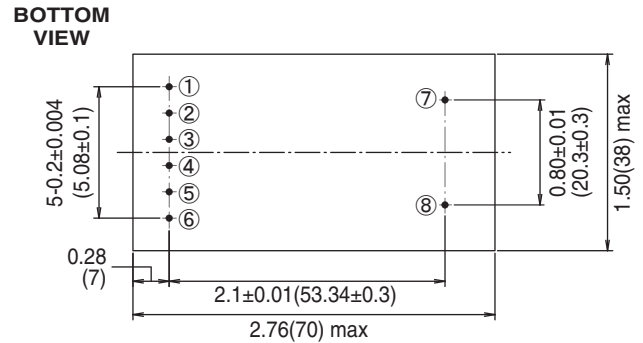
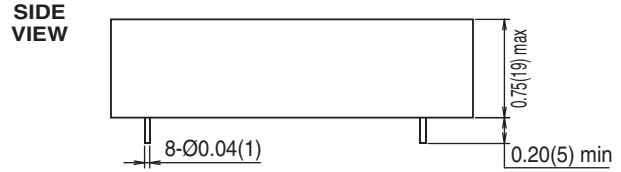
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DIMENSIONS inch(mm)

[Standard]



[Option]



OPTION

-L2S Output voltage monitor, Remote switch ON/OFF
 Voltage dividing ratio 1000 : 1 Accuracy 2%
 Impedance of voltmeter shall be more than 10MΩ
 HV ON/OFF is possible with contact signal.

-LTc Temperature Coeff. is 25ppm/°C.
 Applicable only for model with -L2S

*Suffix "-L2S" or "-L2STc" to the model number.
 ex. TM-2P-L2STc
 TM-3P-L2S

Warranty

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