

Ultra-compact PCB Mountable



Miniature HV Power Supplies

TF Series 1.25kV 0.7W

1111-02Aa



FEATURES

- Ultra-compact, PCB mountable
- Low ripple, 30mVp-p
- Low Noise due to metal shielding
- Well-regulated, high performance
- External potentiometer or external control voltage programming
- Arc and continuous short circuit protection

SUMMARY

TF Series are miniaturized, well regulated high voltage power supplies suitable for photomultiplier. They feature exceptionally low noise, external potentiometer or voltage control and fully protection against arc and continuous output short circuit.

Output voltage (kVdc)	Output current (mA) [☆]	Model		Ripple (mVp-p)
		Positive polar output	Negative polar output	
0 to 1.25	0.5	TF-1.25P-12	TF-1.25N-12	30
0 to 1.25	0.6	TF-1.25P-15	TF-1.25N-15	30

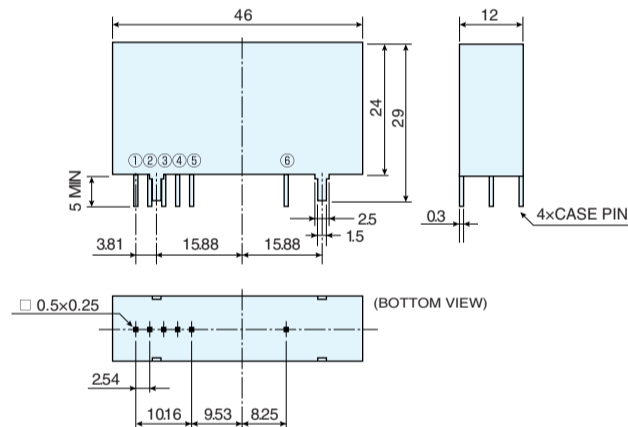
☆ Output voltage range for this output current is 50% to 100% of maximum output voltage.
 ☆ Output current must be derated linearly when operating at levels below 50% of the output voltage capability.

SPECIFICATIONS

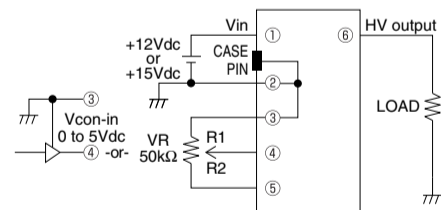
- Input voltage/current** (TF-1.25P-12,TF-1.25N-12)
 +12Vdc ±1Vdc, 95mA Typ
 (TF-1.25P-15,TF-1.25N-15)
 +15Vdc ±1Vdc, 90mA Typ
- Output control** By external 50kΩ potentiometer or external control voltage(Vcon-in) 0 to 5Vdc(Input impedance ≥80kΩ)
- Regulation** Line : ±0.01% of max voltage for Vin ±1V
 Load : 0.01% of max voltage for full load change
- Stability** 0.02%/Hr
- Setting voltage accuracy** ±0.5%(at maximum output Vcon-in)
 0.007%/°C
- Temperature coefficient** 0.007%/°C
- Protection** Reversible input connection
 Overload, arc and continuous output short circuit
- Temperature range** Operating : -10°C to +50°C
 Storage : -25°C to +85°C
- Weight** 30g approx

Note : • Specifications are at the maximum rated output after ½Hr warm-up.
 • Specifications are subject to change without notice.

DIMENSIONS mm



CONNECTION DIAGRAM



1. PIN ②, ③ and case are internally connected.
2. CASE PIN should be always connected to ground.
3. Input impedance of Pin ④ is greater than 80kΩ
4. External potentiometer of T.C ≤ 100ppm/°C, PC ≥ ¼W is recommended.

CHARACTERISTICS OF OUTPUT VOLTAGE SETTING

