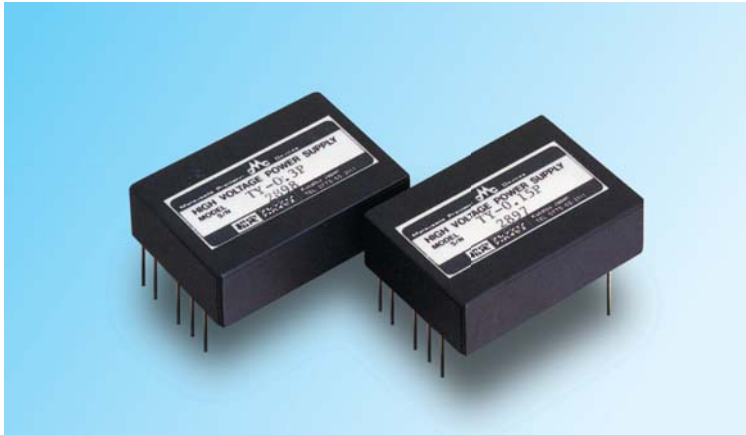


Miniature HV Power Supplies

TY Series 300V 1.5W

01.112.0203



FEATURES

- PCB mountable
- Low ripple, high stability, and well-regulated output
- A wide range of input voltage (+10 to +18 Vdc)
- Wide output voltage range (Linearly variable from 0V)
- Well-regulated, high performance
- External potentiometer or external control voltage programming
- Full protection (over voltage, over current, input reverse connection)
- Long lifetime, high reliability

SUMMARY

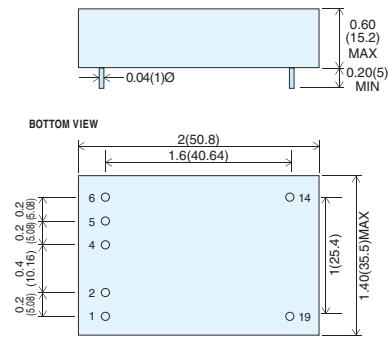
TY series is a pioneer PCB mountable type module. well-regulated and high performance in such miniature size and with low noise.

Output voltage (Vdc)	Output current (mA)	Model		Ripple
		Positive polar output	Negative polar output	
0 to 150	10	TY-0.15P	TY-0.15N	0.05%p-p
0 to 300	5	TY-0.3P	TY-0.3N	

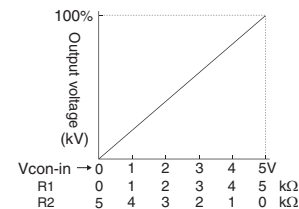
GENERAL SPECIFICATIONS

Input voltage/current	+10 to +18Vdc, 285mA typ. (at +12V input)
Output control	By external 5kΩ potentiometer or external control voltage (Vcon-in) 0 to 5Vdc (input impedance ≥ 10kΩ)
Regulation	Line: ±0.08% (of max voltage for Vin ±2V) Load: 0.08% (of max voltage for full load change)
Stability	0.01%/H typ
Temperature coefficient	100ppm/°C typ
Voltage setting accuracy	±2% (at maximum output Vcon-in)
Protection	Over voltage, continuous short circuit, input reverse connection
Temperature range	Operating : -10°C to +50°C Storage : -20°C to +60°C
Weight	60g approx

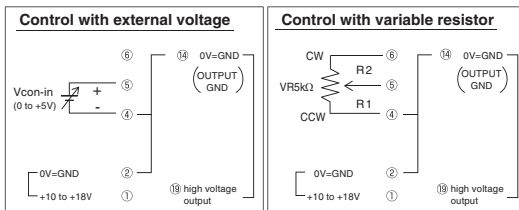
DIMENSIONS inch(mm)



CHARACTERISTICS OF OUTPUT VOLTAGE SETTING



CONNECTION DIAGRAM



Warranty

We warrant that products contained in this catalog (hereinafter, the "Products") are free from defects in material and workmanship under normal use for a period of one (1) year from the date of shipment thereof. However, the warranty period for X-ray detectors and X-ray source shall be either one (1) year from the date of shipment or 1,000 hours, whichever shorter. The above warranty shall not apply to any Product which, at our sole judgment, has been: i) Repaired or altered by persons unauthorized by us; or ii) Connected, installed, adjusted or used otherwise than in accordance with the instructions furnished by us (including being used in an inappropriate installation environment, such as in corrosive gas, high temperature and humidity). We are not liable for any loss, damage or failure of the Products after the shipment thereof caused by external factors such as disasters. If any Product is showed to be defective as satisfactory to us, we, at our sole discretion, repair or replace such defective Products at no cost to the purchaser. We assume no liability to the purchaser or any third party for special, incidental, consequential, or other damages resulting from a breach of the foregoing warranty. This warranty excludes any and all other warranties not set forth herein, express or implied, including without limitation the implied warranties of merchantability or fitness for a particular purpose. The Products are not designed and produced for such applications as requiring extremely high reliability and safety, or involving human lives (such as nuclear power, aerospace, social infrastructure facility, medical equipment, etc.). The use under such environment is not covered by this warranty and may require additional design and manufacturing processes.


Matsusada Precision Inc.

 For products www.matsusada.com/product For contact www.matsusada.com/contact

San Jose Office : 2570 N. First Street Suite 200 San Jose, CA 95131
Tel: +1-408-273-4573 Fax: +1-408-273-4673
New York Office : 80 Orville Drive Suite 100 Bohemia, NY 11716
Tel: +1-631-244-1407 Fax: +1-631-244-1496

Dallas Office : 5430 LBJ Freeway, Suite 1200 Dallas, TX 75240
Tel: +1-972-663-9336 Fax: +1-972-663-9337

International Office : Osaka-City, Osaka Japan
Tel: +81-6-6150-5088 Fax: +81-6-6150-5089
Headquarters : 745 Aoji-cho Kusatsu Shiga 525-0041 Japan
Tel: +81-77-561-2111 Fax: +81-77-561-2113