

DC REGULATED POWER SUPPLY

+24V/80mA

MODEL APS-240

INSTRUCTION MANUAL



Caution

- (1) The application of voltage or current exceeding its maximum allowable value to the input terminals may result in instrument damage.
- (2) The supply of power out of its allowable range may cause fire, electric shock or instrument failure.
- (3) The content of this manual may subject to change without prior notice for product improvement.
- (4) This manual is carefully prepared. However, if any question arises, or any mistake, omission or suggestion is found in the content of this manual, contact your nearest our sales agent.
- (5) Keep this manual, available easily anytime.

Features

- Small size and light weight.
- With built-in overload protection circuit.
- Mounting dimensions are the same as those of the Model HP3 relay (Matsushita Electric Works).
- Both input power supply voltages of 90 to 132V AC (Model APS-240-1) and 180 to 264V AC (Model APS-240-2) are available.

1. Outline

The APS-240 power supply is a power module developed for our digital panel meters or sensors operated by 24V DC.

This power supply even with small space corresponding to one power relay can output 24V DC and 80mA in a power supply voltage system of 100V AC or 200V AC.

2. Notice

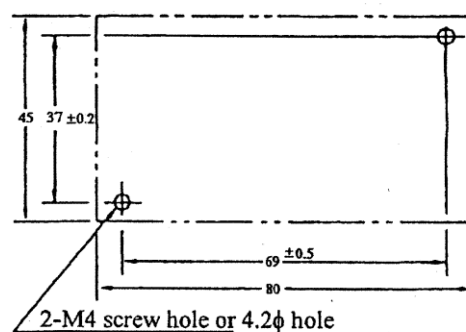
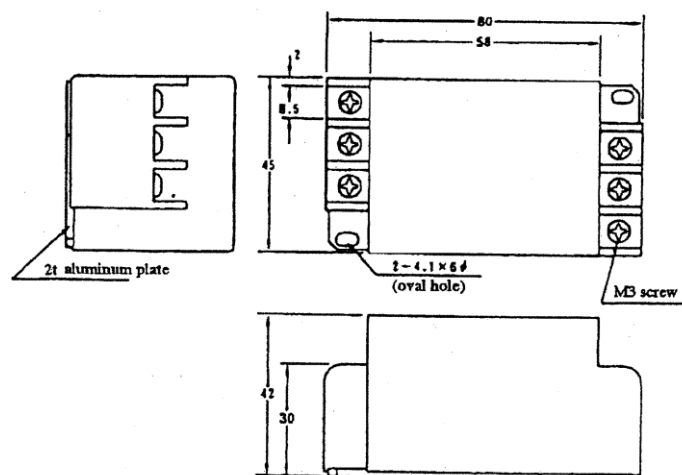
As the rear plate of the Model APS-240 power supply also is used for a radiation fan, carefully mount the power supply so that the sufficient radiation effect can be attained.

In addition, it has a built-in overload protection circuit. However, if the output terminals are shorted for a long period of time, heat may be produced to damage the power supply.

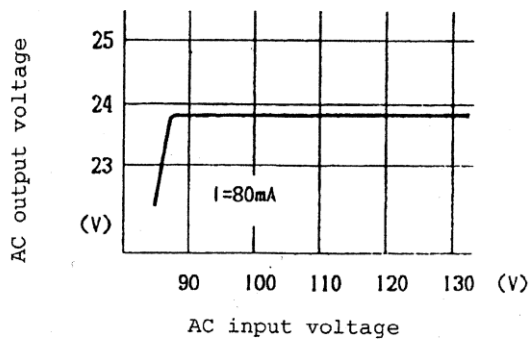
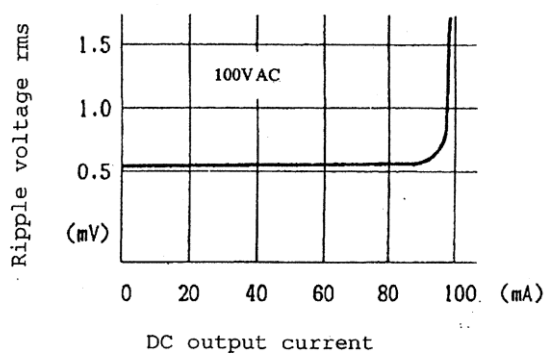
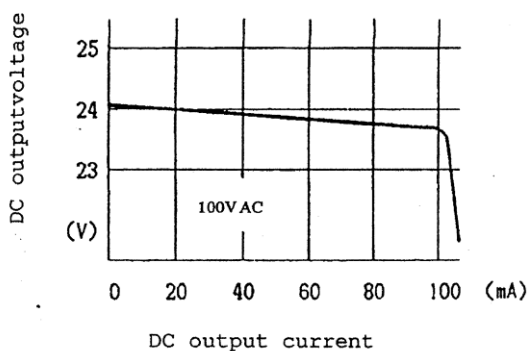
3. Specifications

Input voltage	: APS-240-1	90 to 132V AC, 50/60Hz
	APS-240-2	180 to 264V AC, 50/60Hz
Operating temperature range	: 0 to 50°C	
Output voltage	: 24V DC	±10%
Maximum output current	: 80mA	
Ripple voltage	: 2mA (rms)	
Insulation resistance	: Between ① and ⑤, ① and aluminum plate, or ⑤ and aluminum plate	→ 100MΩ at 500V DC
Dielectric strength	: Between ① and ⑤, ① and aluminum plate, or ⑤ and aluminum plate	→ For 1 min. at 1500V AC
Weight	: Approx. 230g	

4. Dimensions



Mounting dimensions

Graph 1 Relationship between input voltage and output voltage**Graph 2 Relationship between output voltage and output ripple****Graph 3 Relationship between output current and output voltage****5. Warranty**

The warranty lasts for one year from the date of delivery. If this product fails during this period and the reason is considered to be clearly.

The manufacturer warrants to the original retail customer its indicator to be free of defects in material and workmanship for use under normal care and will repair or replace any

6. After Sales Service

Under strict quality control measures, this product was manufactured, tested, inspected and shipped. Should a defect in manufacture or Workmanship be identified, please return the product to our distributor or directly to us. It would be highly appreciated if you could give a detailed account of the fault and enclose it with the product.

watanabe

WATANABE ELECTRIC INDUSTRY CO., LTD.

6-16-19, Jingumae, Shibuya-ku, Tokyo 150-0001, Japan

Phone: (81)3-3400-6141

Homepage <http://www.watanabe-electric.co.jp/en/>