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POWERBOX Medline 450 OBQ05 Series 350-480W Single Output AC/DC Medical Switch Mode Power Supply Manual

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1. Introduction

The switching power supply is intended for use in medical electrical equipment. There is no part in this equipment suitable for direct patient contact!

2. Descriptions

Circuit diagrams, descriptions and component parts list will be made available only upon request when servicing is required. Please contact manufacturer.

P O box 148, SE-646 22 Gnesta, Sweden

3. Installation

The equipment must be reliably connected to protective earth terminal via Appliance inlet. The requirements of IEC/EN 60601-1 shall be fulfilled during the installation of this power adapter into an end system.



4. Environmental Conditions

- Transportation temperature / humidity: -40°C to +85°C / 20% - 90%.
- Storage temperature / humidity: -40°C to +85°C / 20% - 90%.
- Operation temperature / humidity: 0°C to +50°C / 5% - 95%
- Operation pressure: 700 to 1060 hPa

5. EMC

The equipment has not been evaluated according to IEC60601-1-2. The EMC assessment shall be conducted for the end system configuration.

6. Input Ratings

AC 100-240V, 47-63Hz, 5.8-2.3A.

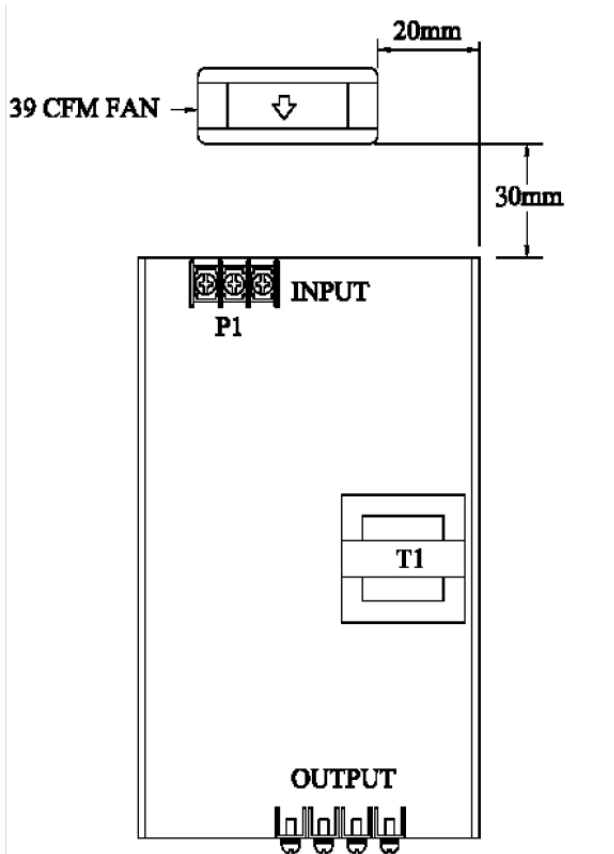
7. Current Ratings

The output load shall not exceed the following current ratings associated with the power supply models:

Note: 450-480 watts for "C" version with cover and fan assembly. 225-240 watts for "B" version without moving air (maximum current of output #1 & 2 derated to 50%), or 450-480 watts with 39 CFM forced air provided by user.

Current Ratings Model	Output DC ratings for all models where "y" = B (with external cooling) or "y" = C			Output DC ratings for all models where "y" = B (without external cooling). Note: All ratings are de-rated by 50%		
	Voltage [V]	Current[A]	Power [W]	Voltage [V]	Current[A]	Power [W]
OBQ05031y	12	37.5	450	12	18.75	225
OBQ05037y	15	30.0	450	15	15	225
OBQ05046y	24	18.75	450	24	9.375	225
OBQ05050y	27	16.7	450	27	8.35	225
OBQ05055y	30	15.0	450	30	7.5	225
OBQ05063y	40	12.0	480	40	6.0	240
OBQ05070y	48	10.0	480	48	5.0	240
OBQ05078y	55	8.73	480	55	4.365	240

8. Fan Location



9. Warning Connection

To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth by Input Connector

10. Inspection

Any inspection and maintenance tasks must be carried out only by authorized by the manufacturer service personnel.

11. Warning Modification

Do not modify the power supply without authorization from the manufacturer."

12. Disposal

"Do not dispose this product in the household waste, please, follow the respective national law for proper disposal."



13. Classification

The classification of the equipment is:

- Class I
- No applied parts
- Not AP or APG type
- Protection class IPX0
- Not intended for use in the presence of flammability an aesthetic mixture with air or with oxygen or nitrous oxide
- Intended for continuous operation

14. Fuses

The power supply is provided with two fuses (F1, F2), rated F10A, 250Vac, size approximately 8.45 x 7.9 mm (outer diameter x height).

15. Operating Altitude

The maximum operating altitude is 3000 meters.