



60 Watt Desktop AC/DC Switch Mode Power Supply

- Suitable for use with Battery Chargers, LCD Monitor, TV, Printer, Scanner, CD-RW Drive, PC Peripheral Products etc..

Input Characteristics

Input Voltage / Frequency			Input Current	Inrush Current
minimum	nominal	maximum	maximum	maximum
90 V AC	115 AC	230 V AC	1.5 A	60 A @ 25°C
47 Hz	60 Hz	50 Hz	100 V AC	264 V AC

Output Characteristics

Output Voltage			Output Current			Regulation		
min.	max.	Ripple p-p*	min.	max.	Power	Efficiency	Line	Load
16 V DC	19 V DC	± 150 mV	0.0 A	3.8 A	60 Watts	78% typ.	± 1%	± 5%

* Measurement is carried out with a 20MHz bandwidth oscilloscope and each output is terminated with a 10µF aluminium electrolytic capacitor and a 0.1µF ceramic capacitor.

Turn on Delay During turn on and turn off, no output voltage shall exceed its nominal voltage by more than 10% and no output shall change its polarity with respect to its return line. All outputs shall reach their steady state values within 2 seconds of turn on.

Hold up Time 10 mSec minimum from loss of 115 V AC / 60 Hz at maximum load, and 20 mSec minimum at 230 V AC / 50 Hz input at maximum load.

Transient Response and Deviation The power supply shall maintain output transient response time within 5mSec with a current change from 20% to 80% of maximum current and 0.5A/µs slew rate in load for the output.

Over Voltage Protection The power supply shall be hiccupped when output voltage reaches its over-voltage protection trigger point.

Over Current and Short Circuit Protection The power supply shall be hiccupped when output current reaches its over-current protection trigger point. The power supply shall be auto-recovering when the fault condition is removed.

Operating			Storage			Relative Humidity
Temperature		Pressure	Temperature		Pressure	no Condensation
minimum	maximum	Range	minimum	maximum	Range	
-0 ° C	40 ° C	570 – 1200 hPa	- 20 ° C	85 ° C	115 – 1200 hPa	20 - 90 %

Technical Data Sheet

Medical Power Supply PSU60M



Housing Specifications

Material	Length	Width	Height	Weight (approx.)	Operation Display	
Polycarbonate (PC) UL94V0	168 mm	89 mm	46 mm	550 g. (inc. cables & conns)	OK/Status Defect	Green LED None

International Standards

Conducted and Radiated Emissions	Electro Static Discharge (ESD)	Radiated Electro Magnetic Fields (RS)	Electrical Fast Transient Burst (EFT)
CFR47, FCC part 15 CLASS B, EN55022 CLASS B,	EN61000-4-2	EN61000-4-3	EN61000-4-4
Lightning Surge	Conducted Radio Frequency Disturbances (CS)	Power Frequency Magnetic Field	Voltage Dips / Short Interruption / Variations
EN61000-4-5	EN61000-4-6	EN61000-4-8	EN61000-4-11



Reliability

Mean Time before Failure (MTBF)	Component de-rating
MIL-STD-217F: 40,000 hours at 25°C (Calculated) 200,000 hours at 25°C (Demonstrated)	Semiconductor junction temperatures shall not exceed the manufacturer's maximum thermal rating.

World Wide Approvals and Green Procurement

Europe	International	USA / Canada
CE – EN 60950 / EN 60601	CB report – IEC 60950 RoHS 2002 / 95 EC and WEEE 2002 / 96 / EC	UL/cUL – UL 1950 / UR/cUR –UL 60601

Connector and Cable Specification

Input Connector	Output Connector	Output Cable Length	Output Cable Style
3 Pin AC Inlet IEC-320-C14 Input cable available as EU, US, UK and AUS type 	 full range of standard and custom DC plugs available	Typical: ca. 180cm	AWM2468 AWG 20x2C

Contact Addresses

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