

# Technical Data Sheet

## PSU60M AC/DC Power Supply



### 60 Watt AC/DC switch mode power supply with medical approval

#### Features:

- Medical approval UL60601-1
- Class 2 device
- Simple operation
- Wide input voltage range
- Country specific AC input cables available
- LED for status indication

#### Applications:

- Suitable for use with medical devices

### Specification

Input	
Voltage range	90 - 264VAC
Input current	Max. 1.5A @ 100VAC
Inrush current	Max. 60A @ 264VAC
Protection	Over voltage protection

Output	
Voltage range	16 - 19VDC
Power	60W
Current	0 - 3.8A
Load regulation	±5%
Line regulation	±1%
Ripple & noise <sup>(1)</sup>	<150mV <sub>pk-pk</sub>
Protection	Short circuit Over current protection Over voltage protection

Environmental	
Cooling	Convection cooled
Temperature	Operating: 0°C to 40°C Non-operating -20°C to 85°C
Pressure & altitude	Operating: 1200hPa to 570hPa, max. 3000m above sea level Non-operating: 1200hPa to 115hPa, max. 15000m above sea level
Humidity	10 to 90% r.H., non-condensing

General	
Galvanic isolation	Isolation voltage 4kV
Input connector	AC Inlet
Output connector	Customer-specific
Efficiency	78% at 100% load
MTBF	40000h per MIL-HDBK217F
Green procurement	WEEE RoHS
Indicator	Single green LED
Ingress protection rating	IEC60525, IP40

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Safety & EMC		
Regulatory approvals	Europe International USA/Canada	CE CB Report IEC 60601-1 UL60601-1 UL60950-1
Electromagnetic emissions	Europe USA Medical electrical equipment	EN 55011/55022 class B FCC15 class B IEC60601-1-2
Electromagnetic immunity	ESD immunity Electromagnetic field immunity Electrical fast transient/burst immunity test Surge immunity test Conducted Immunity Magnetic field immunity Medical electrical equipment	IEC61000-4-2, 8kV contact/8kV air IEC61000-4-3, 80-2500MHz, 30V/m, modulation 80%/200Hz IEC61000-4-4, +/-2kV, 5/50ns IEC61000-4-5, +/-2kV, 1.2/50(8/20) $\mu$ s IEC61000-4-6, 0.15-80MHz, 10V, 80%, 1KHz, AM, with CDN IEC61000-4-8, 30A/m IEC60601-1-2

Mechanical Details	
Housing dimensions (LxWxH)	168 x 89 x 46mm, without cables and connectors
Input cable length	on request
Output cable length	100cm $\pm$ 5% (others on request)
Weight	approx. 500g, without cables and connectors

### Notes

1. Measurement is carried out with a 20MHz bandwidth oscilloscope and each output is terminated with a 10 $\mu$ F aluminium electrolytic capacitor and a 0.1 $\mu$ F 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

10mSec minimum from loss of 115VAC/60Hz at maximum load, and 20mSec minimum at 230VAC/50Hz input at maximum load.

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