## Technical Data Sheet

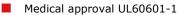
**PSU60M AC/DC Power Supply** 





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

## Features:



- Class 2 device
- Simple operation
- Wide input voltage rangeCountry specific AC input cables
- available
- LED for status indication

## **Applications:**

Suitable for use with medical devices

## Specification

## Input

Voltage range90 -Input currentMaxInrush currentMaxProtectionOver

- 264VAC	
x. 1.5A @ 100VAC	
x. 60A @ 264VAC	
er 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

## General

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 Input connector	<u>I</u> solation voltage 4kV AC Inlet
Output connector	Customer-specific
Efficiency	78% at 100% load
MTBF	40000h per MIL-HDBK217F
Green procurement	WEEE RoHS
Indicator Ingress protection rating	Single green LED IEC60525, IP40

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## Safety & EMC

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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)µs 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 ±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 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

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

Germany/Headquarters	USA	Hong Kong	China
RRC power solutions GmbH Technologiepark 1 D-66424 Homburg / Saar	RRC power solutions Inc. 18340 Yorba Linda Blvd., Suite 107-437 Yorba Linda, CA 92886-4104	RRC power solutions Ltd. S-V,6/F, Valiant Industrial Centre 2-12 Au Pui Wan Street Fo Tan, N.T., Hong Kong	RRC power solutions Ltd. Room 520, Yuanlin Building, Aiguo Road No. 3066, Luohu District, Shenzhen 518021
Tel.: +49 6841 98090 Fax: +49 6841 9809280 Email: sales@rrc-ps.de Web: www.rrc-ps.de	Tel.: +1 714 777 3604 Fax: +1 714 777 3658 Email: usa@rrc-ps.com Web: www.rrc-ps.com	Tel.: +852 2376 0106 Fax: +852 2375 0107 Email: hkrrc@rrc-ps.cn Web: www.rrc-ps.com	Tel.: +86 755 8374 1908 Fax: +86 755 8374 1861 Email: hkrrc@rrc-ps.cn Web: www.rrc-ps.com