

FEATURES

- Universal Input
- Class I (C14)
- Worldwide Approvals
- Safety Protection
- Power on LED
- 2.5x5.5x11mm DC Connector

RS PRO Desktop Power Supplies

RS Stock No.: 2297876

2297878

2297879

2297881

2297883



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

The purpose of the document is to specify a Single-phase AC input, single output switching power supply. This specification is for: Medically approved Desktop Power Supplies 84W-90W Series suitable for use in medical applications. This Specification defines the input, output, performance characteristics, environment, noise and safety requirements.

General Specifications

Type	Switched Mode Power Supply
Input Connector	IEC 320-C14
Output Connection	2.5x5.5x11.0mm +ve inner/centre
Number of Outputs	1
Energy Efficiency Level	VI
Mounting Style	Desktop
MTBF	300,000 hours calculated at 25°C, by Telcoria SR-332
Power Indicator	LED Indicator for power on
Cable Length	1500mm(±30mm)
Cable Type	16AWG/18AWG (Depending on model)
Medical Approved	Yes

Mechanical Specifications

Housing Material	Fully Enclosed Plastic Case
Overall Dimensions	160mm x 64mm x 35mm
Overall Length	160mm
Overall Depth	64mm
Overall Width	35mm
Weight	460g

Electrical Specifications

RS Stock#	Input Voltage	Output Voltage	Output Current	Output Wattage	Efficiency (Typ)
2297876	100~240Vac	12.0Vdc	7.00A	84.0W	89.0%
2297878	100~240Vac	15.0Vdc	6.00A	90.0W	89.0%
2297879	100~240Vac	18.0Vdc	5.00A	90.0W	89.0%
2297881	100~240Vac	19.0Vdc	4.74A	90.0W	89.0%
2297883	100~240Vac	24.0Vdc	3.75A	90.0W	89.0%



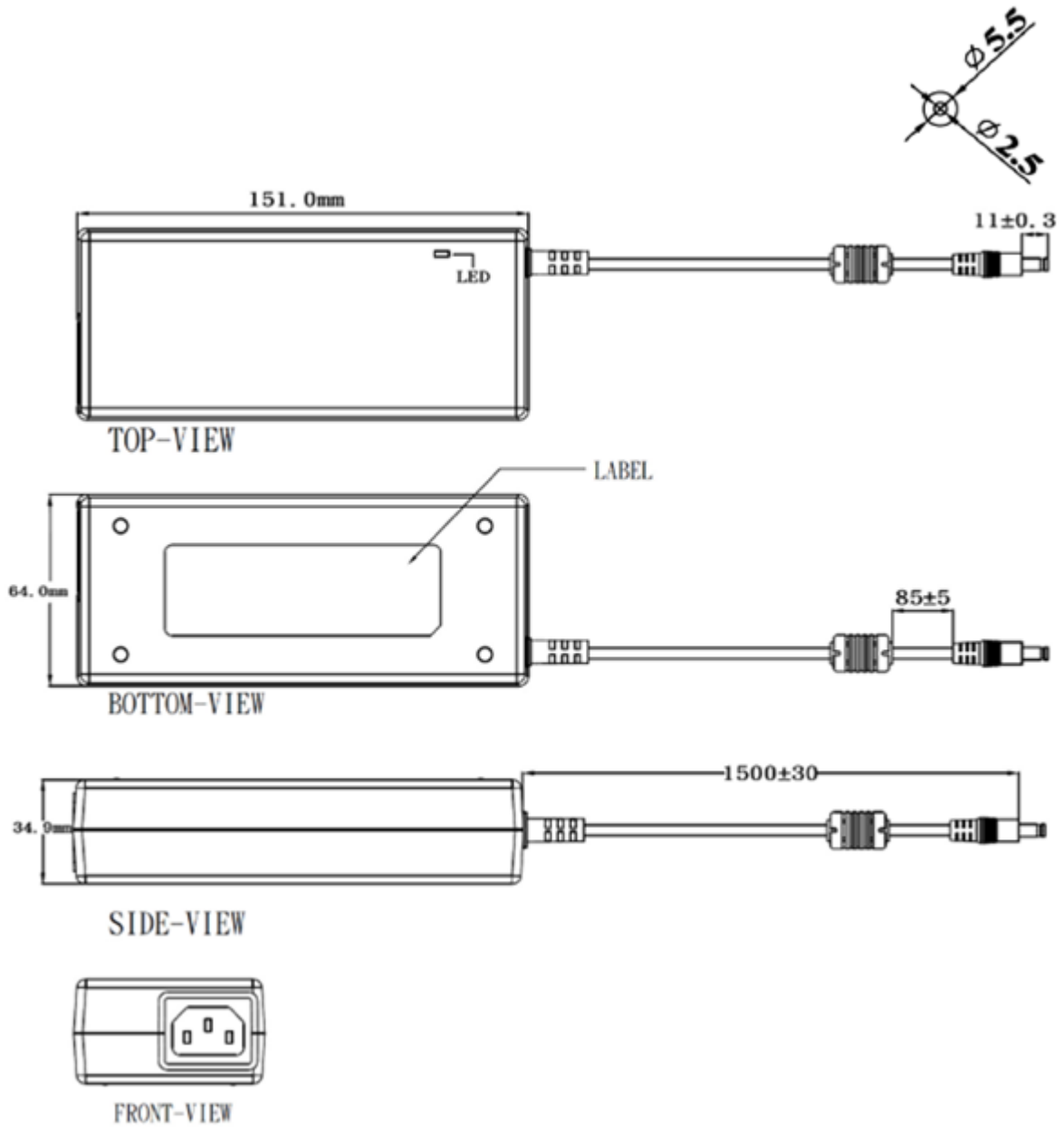
Input Specifications	
Rated Input Voltage	100~240Vac ($\pm 10\%$)
Rated Frequency	50/60Hz
Efficiency Level VI	Level VI / Efficiency (EU) 2019/1782
Input Current	1.2A-0.5A
Inrush Current	80A Max. / 230Vac (Cold Start At 25°C, Full Load)
Touch Current	Less than 100 μ A
Input Protection	Internal Primary Current Fuse
Output Specification	
Output Regulation	$\pm 5\%$
Ripple & Noise (max.)	1% Vp-p Max. for Output Voltage @ Full Load
Voltage Tolerance	$\pm 5\%$
Load Regulation	$\pm 5\%$
No Load Power Consumption	<0.21W
Hold-up Time	10mS @ Full Load
Transient Response	0.5mS for 50% Load Change(Typical)
Number of Outputs	1
Insulation Class	I
Dielectric Strength	Primary to Secondary 4,000Vac for 1 Minutes
Isolation Resistance	10M Ω for 500Vdc
Over Circuit Protection	Auto-recovery.
Over Voltage Protection	V out * 150% MAX., latch off.
Over Current Protection	I out * 170% MAX., auto-recovery.

Protection Category

Means of Protection	2 X MOPP
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Approvals

Compliance/Certifications	CB/ UL/ cUL/ TUV
Safety Standard	IEC/EN/ANSI/AAMI ES 60601-1
EMC Emission	FCC Part 18 FCC MP-5 IEC 60601-1-2: 2014 EN 60601-1-2: 2015 CISPR 11: 2009 + A1: 2010 EN 55011: 2009 + A1: 2010 (Group 1, Class B) IEC 61000-4-2: 2008; EN 61000-4-2: 2009 IEC 61000-4-3: 2006 + A1: 2007 + A2: 2010; EN 61000-4-3: 2006 + A1: 2008 + A2: 2010 IEC 61000-4-4: 2012; EN 61000-4-4: 2012 IEC 61000-4-5: 2014; EN 61000-4-5: 2014 IEC 61000-4-6: 2013; EN 61000-4-6: 2014 IEC 61000-4-8: 2009; EN 61000-4-8: 2010 IEC 61000-4-11: 2004; EN 61000-4-11: 2004 IEC 61000-3-2: 2014; EN 61000-3-2: 2014 IEC 61000-3-3: 2013; EN 61000-3-3: 2013



Connection Diagrams / Assembly Diagrams / Illustrations / Accessories