

FEATURES

- Universal Input
- Class I (C14)
- Worldwide Approvals
- Safety Protection
- Power on LED
- 2.1x5.5x11mm DC Connector

RS PRO Desktop Power Supplies

RS Stock No.: 2297849

2297851

2297853

2297855

2297857

2297858



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.

Desktop Power Supplies

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 25W~36W 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	2.1x5.5x11.0mm +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/20AWG (Depending on model)
Medical Approved	Yes

Mechanical Specifications

Housing Material	Fully Enclosed Plastic Case
Overall Dimensions	100mm x 50mm x 33mm
Overall Length	100mm
Overall Depth	50mm
Overall Width	33mm
Weight	210g

Electrical Specifications

RS Stock#	Input Voltage	Output Voltage	Output Current	Output Wattage	Efficiency (Typ)
2297849	100~240Vac	5.0Vdc	5.0A	25.0W	84.9%
2297851	100~240Vac	7.5Vdc	4.0A	30.0W	88.0%
2297853	100~240Vac	9.0Vdc	4.0A	36.0W	88.0%
2297855	100~240Vac	12.0Vdc	3.0A	36.0W	88.0%
2297857	100~240Vac	18.0Vdc	2.0A	36.0W	89.0%
2297858	100~240Vac	24.0Vdc	1.5A	36.0W	89.0%

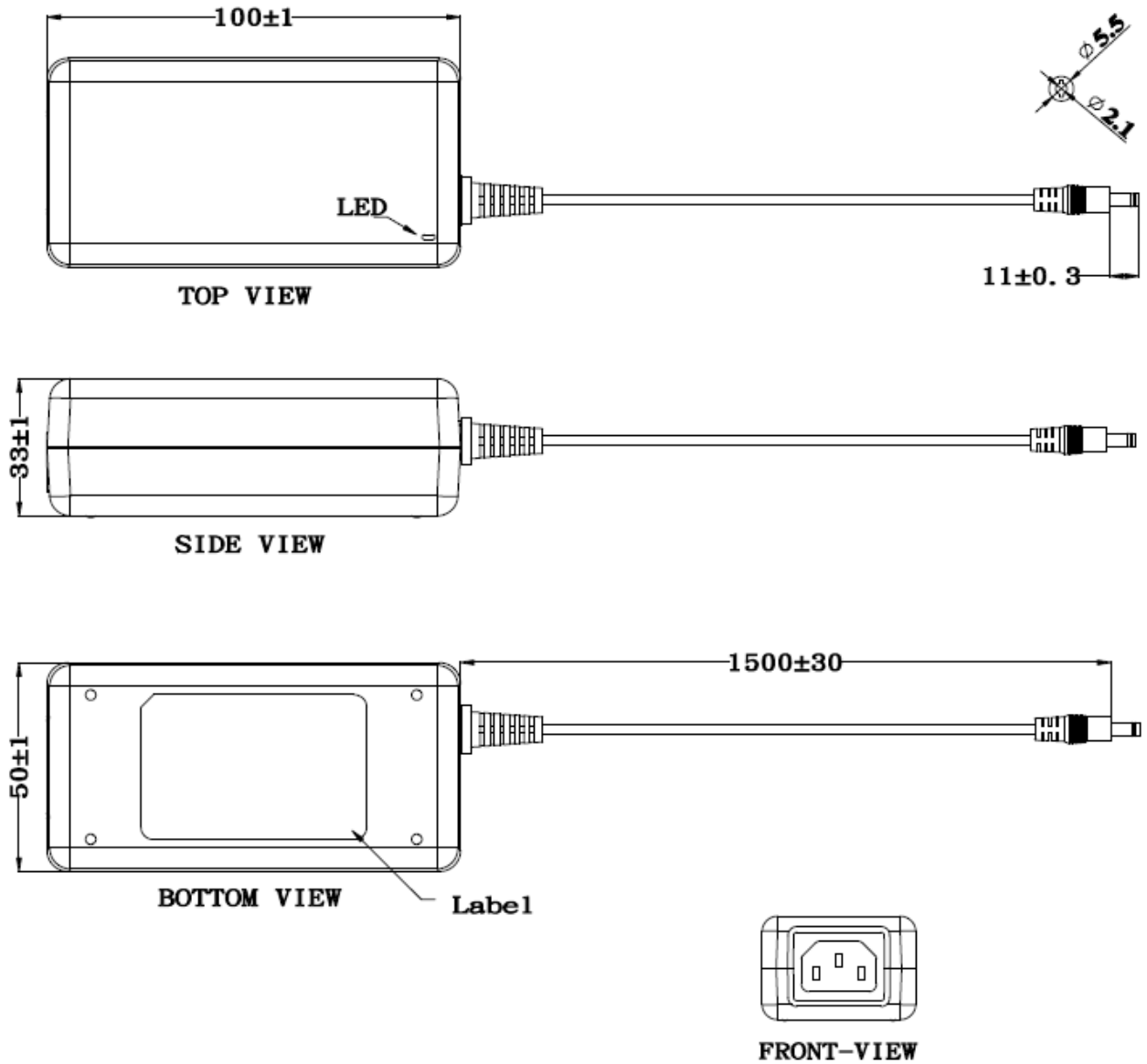
Input Specifications	
Rated Input Voltage	100~240Vac ($\pm 10\%$)
Rated Frequency	50/60Hz
Efficiency Level VI	Level VI / Efficiency (EU) 2019/1782
Input Current	1.0A-0.45A
Inrush Current	70A Max. / 230Vac (Cold Start At 25°C, Full Load)
Touch Current	Less than 100 μ A
Input Protection	Internal Primary Current Fuse
Output Specification	
Output Regulation	$\pm 5\%$
Ripple & Noise (max.)	2% Vp-p Max. for Output Voltage @ Full Load
Voltage Tolerance	$\pm 5\%$
Load Regulation	$\pm 5\%$
No Load Power Consumption	<0.075W
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 * 200% MAX., latch off.
Over Current Protection	I out * 200% 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