

Medical Desk Top Power Supplies



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PS30ME Series 20-30 Watt Switch Mode Universal AC Input

Features

- Universal Input Range 90-264VAC
- Continuous Short Circuit Protection
- Over Voltage Protection
- Meets EN60601-1 & EN55011 Class B
- CEC Level IV Compliant (Output cable length \leq 1800mm)
(PS30ME050: Level III, Output cable \leq 720mm)
- Optional Output Connectors



Electrical Specification

INPUT

Input Voltage Range	90 - 264Vac
Frequency	47 - 63Hz
Inrush Current	50A max. @ 240Vac
Isolation - Input/Output	5,656VDC
Input Current	0.6A max.

OUTPUT

Hold-up Time	16mS typ. @ 115Vac
Short Circuit Protection	Continuous (Auto Recovery)
Over Voltage Protection	Yes

ENVIRONMENTAL

Operating Temperature Range	0°C to +40°C
Storage Temperature Range	-20°C to +85°C
Cooling	Natural convection

GENERAL

Safety Approvals	cUL/UL 60950, TUV EN60950
Dimensions	110.0 x 50.0 x 30.0 mm 4.331 x 1.969 x 1.181 inches
Weight	220g
AC Inlet	IEC320/C8

Output Voltage and Current Ratings

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	VOLTAGE SETPOINT	LINE REG.	LOAD REG.	% EFF.
PS30ME050	5V	4A	50mV pk-pk	$\pm 2\%$	$\pm 1\%$	$\pm 6\%$	71%
PS30ME090	9V	3A	90mV pk-pk	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	75%
PS30ME120	12V	2.5A	120mV pk-pk	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	76%
PS30ME150	15V	2A	150mV pk-pk	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	78%
PS30ME180	18V	1.65A	180mV pk-pk	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	78%
PS30ME240	24V	1.25A	240mV pk-pk	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	80%

NOTE:

1. Voltage set point at 60% full load.
2. Output noise and ripple measured with 10 μ F electrolytic & 0.1 μ F ceramic capacitors across output at 20MHz BW.
3. Line regulation is measured from 100Vac to 240Vac at full load.
4. Load regulation is measured from 60% to full load and from 60% to 20% load (60% \pm 40% load).

Typical at 25°C, nominal line and 75% load unless otherwise stated.

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Mechanical Details

All Dimensions in Inches(mm)
Tolerance Inches: x.xxx= ± 0.02
Millimeters: x.xx= ± 0.5

