



# SM64P Series

45 - 63 Watts

UL, EN, IEC 60601-1 3<sup>rd</sup> Edition Medical  
45 Watt - 63 Watt AC - DC Power Supply

Date: 2/11/16

Rev: 021116

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The SP64P Series desk-top style medical switch mode power supply offer single output range from 5 - 36 Vdc at 45 - 63 Watts output, with UL, cUL, IEC and EN60601-1, 3<sup>rd</sup> Edition safety approvals.

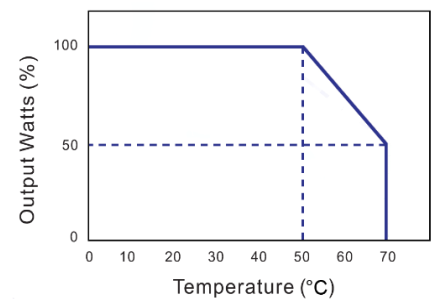


Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz
Input Current (Low Line)	1.33 A Max at 100 Vac
Input Current (High Line)	0.63 A Max at 240 Vac
Safety Ground Leakage Current	0.1 mA Max at 240 VAC, Full Load
Output Voltage & Current	See Table on Page 2
Ripple & Noise (P-P)	1% Max., Full Load at 90 Vac Input
Over-Voltage Protection	112 – 132% Max
Over-Current Protection	110 – 150% Max
Temperature Coefficient	± 0.04% / °C Max
Transient Response	50% Load Change at 100 Vac Input: 4 ms Max
Efficiency	77 - 88%
No Load Power Consumption	≤ 0.5 Watts
Line Regulation	± 1% Max at Full Load
Load Regulation	± 7% Max at 230 Vac
Start-Up Time	0.3 – 2 s
Hold-Up Time	16 ms Min
Withstanding Voltage	Primary to Secondary: 6,868 Vdc Primary to Ground: 2,121 Vdc
Insulation Resistance	50 MΩ Min
Inrush Current	45 A @ 115 Vac Max at 25°C Cold Start 90 A @ 230 Vac Max at 25°C Cold Start
Mean Time Between Failure	Full Load at 25°C Ambient: 100,000 Hours Min
Operating Temperature	See Derating Curve
Storage Temperature	-40 to 85 °C
Industry Compliance	Directive 2011/65/EU (RoHS 2), Energy Efficiency Level V
EMI Requirements	Meets Conduction Limits of: CISPR-11 Class B, FCC Part 18 Class B, and EN 55011 Class B
Safety Compliance	ANSI/AAMI ES 60601-1:2005 (UR Listed 3rd Edition), EN 60601-1:2006 (TUV/T-mark 3rd Edition), CE, CB, FCC, PSE, CCC

## Features:

- Universal Input 100 - 240 Vac
- IEC 320 C-14
- Over-Voltage Protection
- Over-Current Protection
- 100% Burn-In
- RoHS 2 Compliant
- Energy Efficiency Level V
- 2 MOPP Protection

## Derating Curve



Derate Linearly from 100% at 50°C to 50% at 70°C



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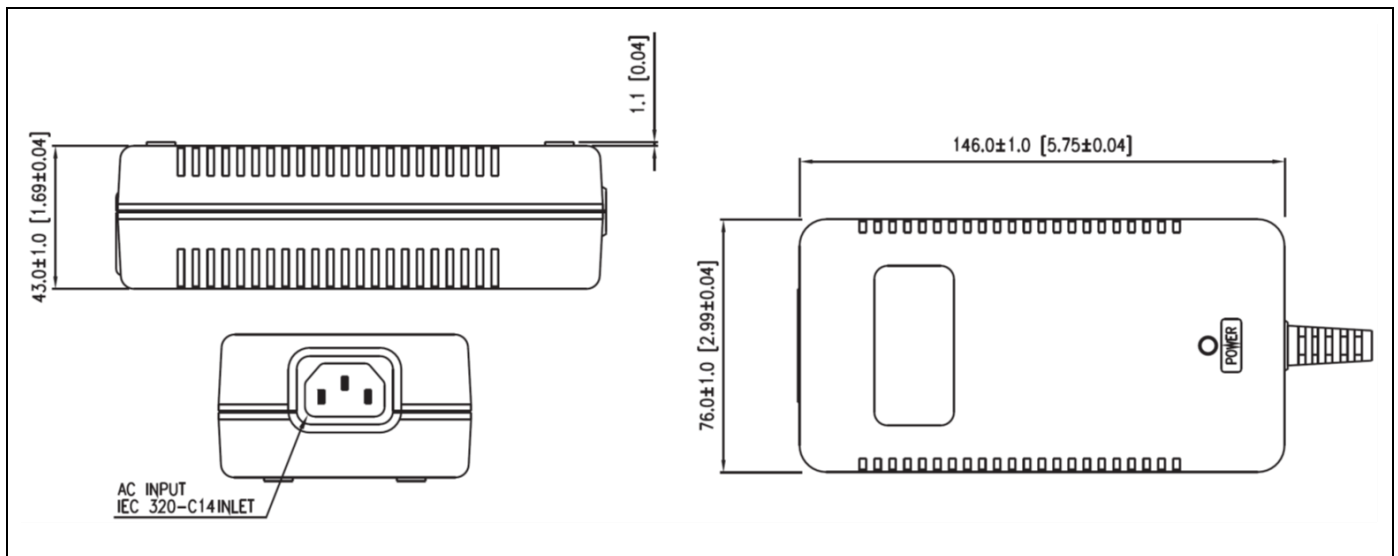
### Output Voltage and Current Table

Output Voltage	Output Current <i>Limited to Output Power</i>	Total Regulation	Maximum Output Power
5 Vdc	9.00 A	7%	45 W
7 Vdc	7.85 A	7%	55 W
9 Vdc	6.44 A	5%	58 W
12 Vdc	5.25 A	5%	63 W
15 Vdc	4.20 A	5%	63 W
18 Vdc	3.50 A	5%	63 W
24 Vdc	2.62 A	3%	63 W
30 Vdc	2.10 A	3%	63 W
36 Vdc	1.75 A	3%	63 W

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Output Voltage: See Table

### Mechanical Specification (mm, [in])



Note: Output connector to be specified.  
The cable length, wire gauge, and output connector will be dependent on the Energy Efficiency level requirements.