



SM63P1R Series

63 Watts

UL, EN, IEC 60601-1 3rd Edition Medical 63 Watt AC - DC Power Supply

Date: 2/11/16

Rev: 021116

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The SM63P1R Series medical switch mode desktop power supply offers 7 single output choices with multiple input socket options at 63 Watts power, with UL, cUL, IEC and EN60601-1, 3rd Edition safety approvals.

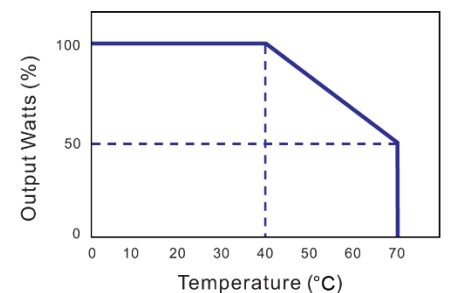


Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz
Input Current (Low Line)	1.62 A Max at 100 Vac
Input Current (High Line)	0.72 A Max at 240 Vac
Safety Ground Leakage Current	0.1 mA Max at 240 Vac, Full Load C-14
Enclosure Leakage Current	0.2 mA Max, C-8 Only
Output Voltage & Current	See Table 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	87 - 92%
No Load Power Consumption	≤ 0.5 Watts
Line Regulation	± 1% Max at Full Load
Load Regulation	± 5% Max at 230 Vac
Start-Up Time	0.3 – 2 s
Hold-Up Time	16 ms Min
Withstanding Voltage	Primary to Secondary: 6,115 Vdc
Insulation Resistance	50 MΩ Min
Inrush Current	37 A @ 115 Vac Max at 25°C Cold Start 74 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

Features:

- Universal Input 100 - 240 Vac
- IEC 320 C-14, C-8, & C-6 Input
- Over-Voltage Protection
- Over-Current Protection
- 100% Burn-In
- RoHS 2 Compliant
- 2 MOPP Protection

Derating Curve



Derate Linearly from 100% at 40°C to 50% at 70°C



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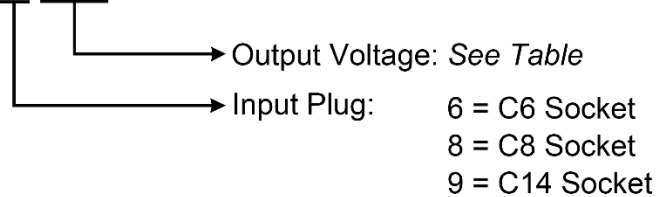
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Output Voltage and Current Table

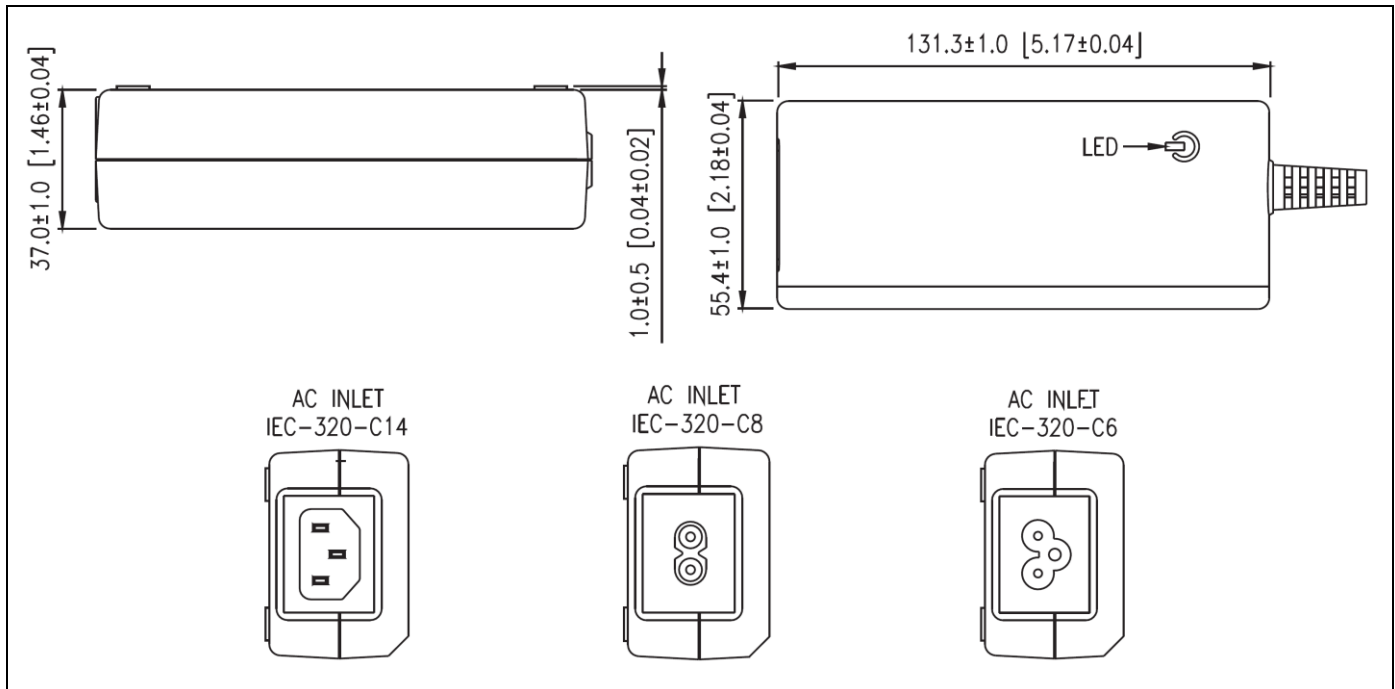
Output Voltage Range *	Output Current <i>Limited to Output Power †</i>	Total Regulation	Maximum Output Power
12 Vdc	5.25 A	5%	63 W
15 Vdc	4.20 A	5%	63 W
18 Vdc	3.50 A	5%	63 W
24 Vdc	2.62 A	3%	63 W
30 Vdc	2.10 A	3%	63 W
36 Vdc	1.75 A	3%	63 W
48 Vdc*	1.31 A	3%	63 W

* Not Available in the C-8 Model.

SM63P1R □ □ □ R



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.



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