



SMY150/151P Series

Date: 2/11/16

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

Rev: 021116

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The SMY150/151P Series open frame medical switch mode power supply has 150 Watts convection cooled output in a 3" x 5" size, with UL/CUL, IEC, and EN 60601-1, 3rd Edition safety approval. It is offered as an open frame or U-chassis, with input and output configuration options.

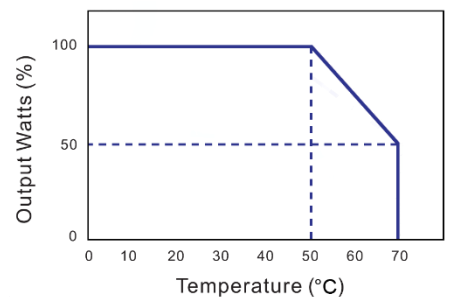


Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz
Input Current (Low Line)	1.74 - 1.76 A Max at 100 Vac
Input Current (High Line)	0.71 - 0.73 A Max at 240 Vac
Power Factor Correction	0.95 - 1
Safety Ground Leakage Current	0.25 mA Max at 240 Vac, Full Load
Output Voltage & Current	See Table on Page 2
Ripple & Noise (P-P)	1% Max., Full Load at 90 Vac Input
Over-Voltage Protection	112 - 132%
Over-Current Protection	110 - 150%
Temperature Coefficient	± 0.04% / °C Max
Transient Response	50% Load Change at 100 Vac Input: 4 ms Max
Efficiency	84 - 89%
No Load Power Consumption	≤ 1.2 Watts
Line Regulation	± 1% Max at Full Load
Load Regulation	± 5% Max at 230 Vac
Start-Up Time	2 s Max
Hold-Up Time	20 ms Min
Withstanding Voltage	Primary to Secondary: 6,990 Vdc Primary to Ground: 2,121 Vdc
Insulation Resistance	50 MΩ Min
Inrush Current	50 A @ 115 Vac Max. at 25°C Cold Start 100 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)
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

Features:

- Universal Input 100 - 240 Vac
- Convection Cooled
- Over-Voltage, Over-Current, and Short Protection
- Active Power Factor Correction
- 100% Burn-In
- RoHS 2 Compliant
- 2 MOPP Protection
- Class I

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	Maximum Output Current	Total Regulation	Maximum Output Power
12 Vdc	12.50 A	5%	150 W
24 Vdc	6.25 A	3%	150 W

SM 15 P1 R

- Output Connector: A = Pin Header
B = Barrier Style Terminal Block
C = European Type Terminal Block
- Output Voltage: See Table
- Input Options: 0 = 3-Pin
1 = 2-Pin
- Case Options: F = Open Frame
U = U-Channel

Mechanical Specification (mm [in])

SME: Open Frame

SMF151: 2-Pin Header
SMF150: 3-Pin Header

Dimensions: 127.0±0.5 [5.00±0.02], 115.6±0.5 [4.55±0.02], 5.7±0.5, 29.6±0.5, 40.0±0.5, 20.3±0.5, 76.2±0.5 [3.00±0.02], 65.3±0.5 [2.57±0.02], 11.35±0.5, 19.27±0.5, 36.6±0.5 [1.44±0.02], 1.6, 18.13±0.5, 3.0MAX, PITCH=7.92mm, PITCH=3.96mm, Ø4 (MOUNTING HOLES)X4, M3*P0.5 (MOUNTING HOLES)X2

Pin Connection 8-Pin Header	
Pin	Output
1-4	+V
5-8	Return

- Input Connector Mating:**
 - 2-Pin Header: Molex Housing 09-50-3031 and Molex 2478 Series Crimp Terminals
 - 3-Pin Header: Molex Housing 09-50-3051 and Molex 2478 Series Crimp Terminals

- Output Connector Mating:**
 - Pin Header: Molex Housing 09-50-3081 and Molex 2478 Series Crimp Terminals
 - Barrier Terminal Block: Dinkle DT-2GN-B01W-04P
 - European Terminal Block: Dinkle ESK750V-04P



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