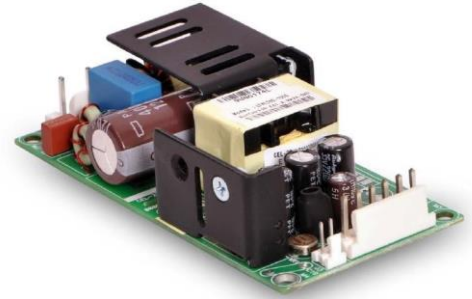


■ Features

- Single output: 80-100W(Convection cooling)
- Single output: 100-150W(Forced Air Cooling)
- Input voltage range: 90-264V
- Output current(2080mA-20000mA)
- 4"x2" form factor
- 12@0.5A fan voltage auxiliary output
- Efficiency 86%
- Protections: SCP, OCP, and OVP
- Class 1 & Class 2 options
- Cover kit accessory available



\*Product images are for illustrative purposes only and may vary from actual design.

■ Applications

- Network system, telecommunication system, storage system, industrial equipment, and consumer electronics

■ Model List\*(See part number scheme for model number details)

Model Number	Input Voltage	Output Power	Output Voltage	Output Current Max (Convection)	Output Current Max. (Forced Air Cooling)	Efficiency 120/230Vac	Certificates
SPMJ150-050-XY	90-264Vac	80/100W*	5V	16A	16A/20A**	84%/86%	UL/cUL
SPMJ150-120-XY	90-264Vac	100/150W*	12V	8.33A	12.5A	84%/86%	UL/cUL
SPJM150-150-XY	90-264Vac	100/150W*	15V	6.67A	10A	84%/86%	UL/cUL
SPMJ150-240-XY	90-264Vac	100/150W*	24V	4.17A	6.25A	84%/86%	UL/cUL
SPMJ150-280-XY	90-264Vac	100/150W*	28V	3.57A	5.35A	84%/86%	UL/cUL
SPMJ150-480-XY	90-264Vac	100/150W*	48V	2.08A	3.13A	84%/86%	UL/cUL

\*100W for Convection cooling; 150W for Forced Air Cooling

\*\*16A for JST Connector; 20A for Screw terminal

■ Technical Data

AC Input	90-264Vac
Input Frequency	47-63Hz
Input Current	120Vac: 1.7A max 230Vac: 0.85A max
No load Power	1.2W
Inrush Current	120Vac: 35A, 230Vac: 65A
Leakage Current	120Vac: <140µA, 230Vac: <250µA
Hold-up Time	120Vac: 6ms; 230Vac: 10ms
Power Factor	120Vac: 0.99; 230Vaw c 0.95
Output Power	Forced cooling: 100W(5V Model) 150W(Other Models) Convection cooling: 80W(5V Model) 100W(Other Models)
Output Adjustability	±3%
Peak Power	170W for 0.2s
Line Regulation	±0.5%

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■ Technical Data(cont.)

Load Regulation	±2%
Transient Response	<10%, 50% to 100% load change, 50Hz, 50%duty cycle, 0.1A/μs Recovery time <5ms
Ripple	1%
Rise Time	<100ms typical
Set Point Tolerance	±1%
Over Current Protection	110%
Over Voltage Protection	110% to 150%
Short Circuit Protection	Short term, auto recovery
Switching Frequency	PFC converter: Variable, 35-250kHz; 90kHz typical Resonant converter: Variable, 35-250kHz; 90kHz typical
Operating Temperature	-20 to +70°C
Storage Temperature	-40 to +70°C
Relative Humidity	95% Rh, noncondensing
Altitude	Operating: 10,000ft.; Nonoperating: 40,000 ft.
MTBF	2.4m Hours, Telcordia-SR332-issue 3
Isolation Voltage	Min. 4242Vdc between Input to output
Cooling	Forced cooling 300LFM: 100W(5V Model) 150W(Other Models) Convection cooling: 80W(5V Model) 100W(Other Models)

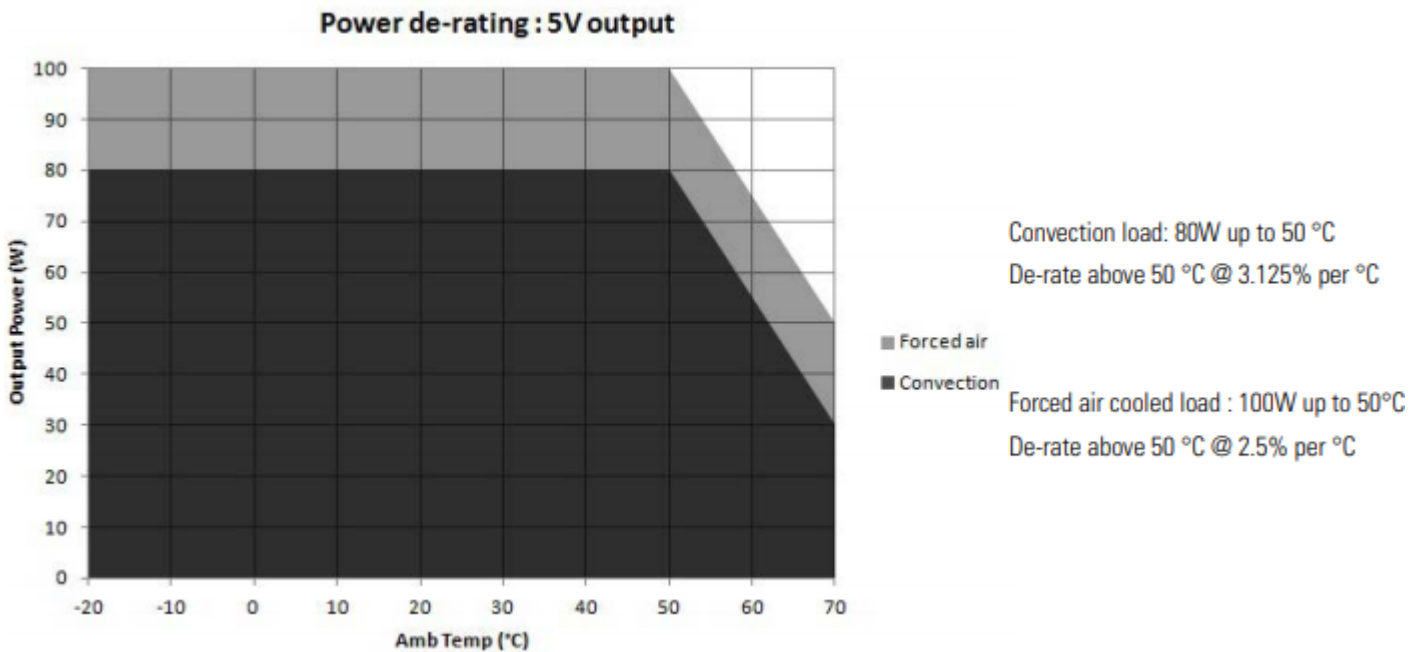
Notes

1. Combined output power from V1 and VFan should not exceed the total output power rating.
2. Ripple is 2% up to 20% load and <1% above 20% load. Ripple is peak to peak with 20MHz bandwidth and 10μF capacitor at rated line voltage and load ranges.
3. Fan output voltage tolerance is ±20%.
4. Peak current for fan output is 1A.
5. Class 1 products have an Earthing tab and Class 2 products (-2 suffix) have no Earthing tab.
6. Specifications are for nominal input voltage, 25°C and max. load unless otherwise stated.
7. Derate output linearly to 80% from 90Vac to 80vac Input.

■ Safety and EMC Approval

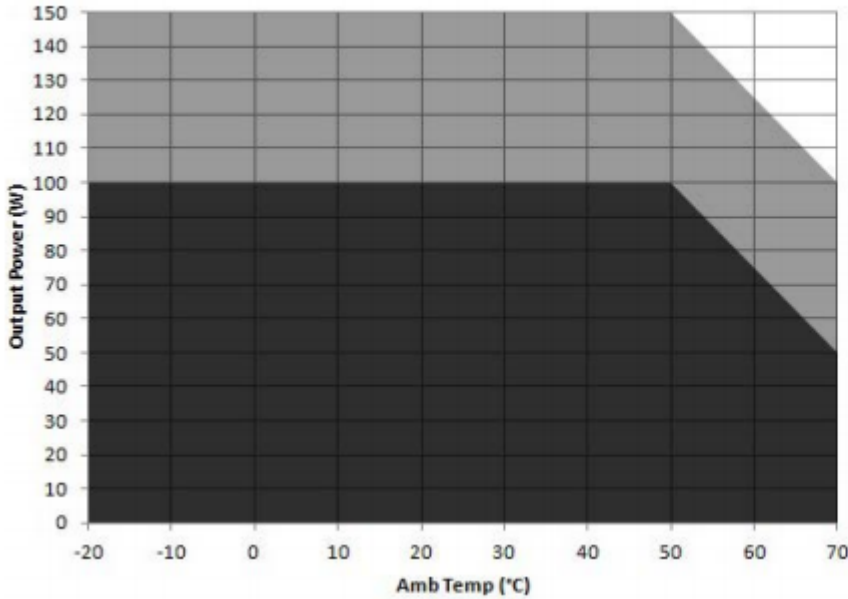
Conducted Emissions	EN55022-B, CISPR22-B, FCC Par15-B, EN50082-1
Static Discharge	EN61000-4-2, Level-3
RF Field Susceptibility	EN61000-4-3, Level-3
Fast Transients/Bursts	EN61000-4-4, Level-3
Radiated Emissions	EN55022-B, CISPR22-B, FCC Part 15-B To be controlled in end sytem
Surge Susceptibility	EN61000-4-5, Level-3
Harmonic Current	EN61000-3-2, Class D
CE Mark	Complies with LVD Directive
Approval Agency	Nemko, UL, cUL
Safety Standards	EN60601-1; IEC60601-1 (ed.3), UL60601-1 (1 <sup>st</sup> edition), CSA C22.2 No. 601.1
Safety File Numbers	Nemko: P12215339, UL: E173812

■ Derating Curve



■ Derating Curve(cont.)

Power de-rating : 12V, 15V, 24V, 48V output

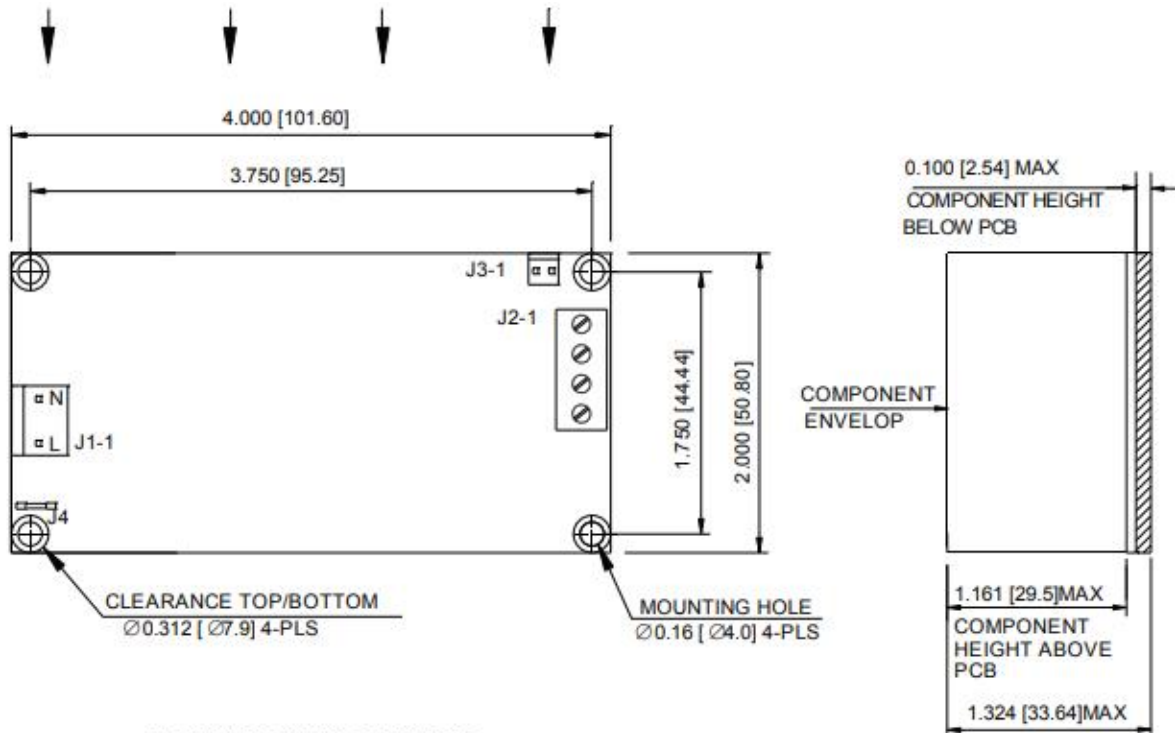


Convection load: 100W up to 50 °C  
De-rate above 50 °C @ 2.5% per °C

■ Forced air  
■ Convection

Forced air cooled load : 150W up to 50°C  
De-rate above 50 °C @ 1.67% per °C

■ Mechanical Diagram

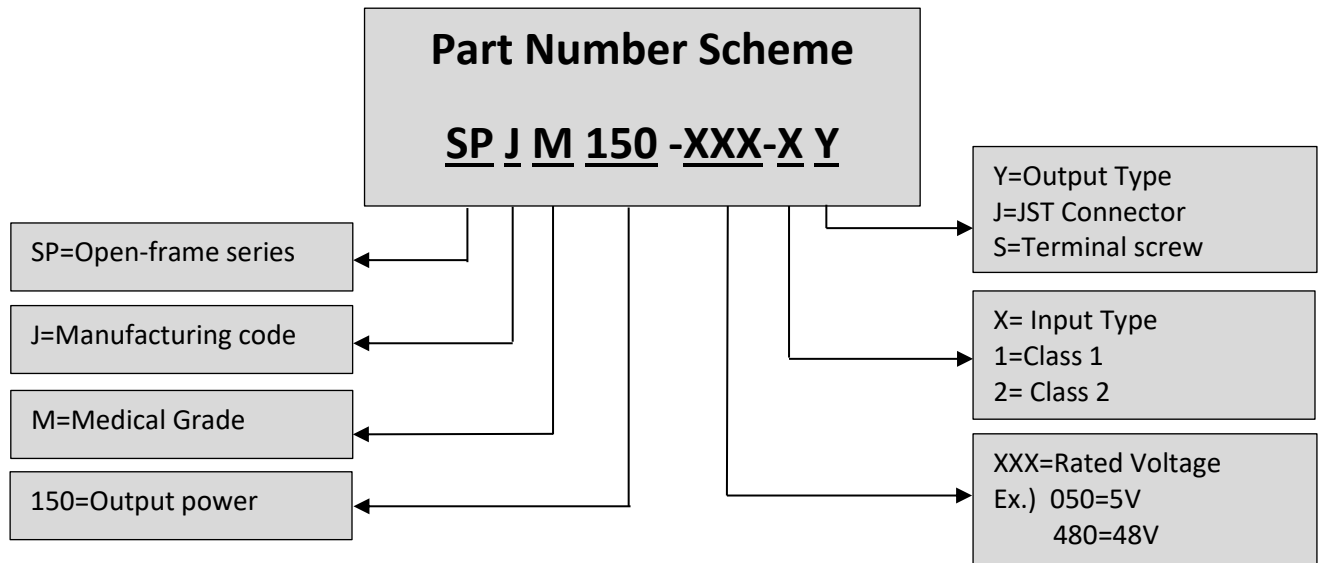


MECHANICAL OUTLINE DIMENSIONS  
ALL DIMENSIONS ARE IN INCHES [MM]  
GEN. TOLERANCE: +/-0.02 [+/-0.5]

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Connectors		
J1	Pin 1	AC Line
	Pin 2	AC Neutral
Space Connector (Class 1 product only)	EARTH	
J2	Pin 1, 2	V1
	Pin 3, 4	RTN
J3	Pin 1	VFAN(12V/0.5A)
	Pin 2	RTN

Mechanical Specifications	
AC Input Connector (J1)	Molex: 26-60-4030 Mating:09-50-3031; Pins: 08-50-0106
EARTH	Molex: 19705-4301 or equivalent Mating: 190030001
DC Output Connector (J2)	Option 1: Tyco: 1776112-4 or equivalent Mating: 13AWG wire Option 2: JST:B4P-VHB (LF) (SN) or B4P-VH(LF) (SN) or equivalent Mating: VHR-4M; Pins: SVH-41T-P1.1
Fan Connector (J3)	Tyco: 640456-2 or equivalent Mating: 640440-2
Dimensions	4x2x1.324 inches (101.60x50.8x33.63mm)
Weight	150g



**\*Product images are for illustrative purposes only and may vary from actual design.**

**\*Specifications are subject to change without notice. Autec is not responsible for issues arising from errors or omissions.**

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