

■ Features

- Single output from 50-65W
- Input voltage range: 90-264V
- Output current(500mA-10000mA)
- 2"x 4" form factor
- Efficiency to 85%
- Protections: OVP, SCP, and OVP
- Single to triple outputs
- Class 1 & Class 2 options
- Cover kit accessory available



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

■ Applications

- Medical grade equipment

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

Model Number	Input Voltage	Output Power	Output Voltage	Output Current Min.	Output Current Max.	Efficiency	Certificates
SPJM60-051-XY	90-264Vac	50W	5.2V	0	10A	85%	UL/cUL
SPJM60-120-XY	90-264Vac	60W	12V	0	5.4A	85%	UL/cUL
SPJM60-150-XY	90-264Vac	65W	15V	0	4.33A	85%	UL/cUL
SPJM60-240-XY	90-264Vac	65W	24V	0	2.7A	85%	UL/cUL
SPJM60-480-XY	90-264Vac	60W	48V	0	1.35A	85%	UL/cUL
SPJM60-3000-XY	90-264Vac	60W	V1=5.2V	V1=0.5A	V1=8A	85%	UL/cUL
			V2=12.5V	V2=0.1A	V2=3A		
			V3=12.8V	V3=0A	V3=0.5A		
SPJM60-3001-XY	90-264Vac	60W	V1=5.2V	V1=0.5A	V1=8A	85%	UL/cUL
			V2=23.8V	V2=0.1A	V2=1.5A		
			V3=12.8V	V3=0A	V3=0.5A		
SPJM60-3002-XY	90-264Vac	60W	V1=5.2V	V1=0.5A	V1=8A	85%	UL/cUL
			V2=14.6V	V2=0.1A	V2=2.5A		
			V3=16.2V	V3=0A	V3=0.5A		

■ Technical Data

AC Input	90-264Vac
Input Frequency	47-400Hz
Input Current	120Vac: 1.5A max 230Vac: 0.75A max
No Load Power	<0.3W for single output models, <0.5W for multi output models
Inrush Current	120Vac: 30A max., 230Vac: 60A max.
Leakage Current	120Vac: <140µA, 230Vac: <250µA
Hold-up Time	>10ms@120Vac Typical
Output Power	50-65W
Line Regulation	±0.3%
Load Regulation	V1: ±0.5%. V2 & V3: ±5%

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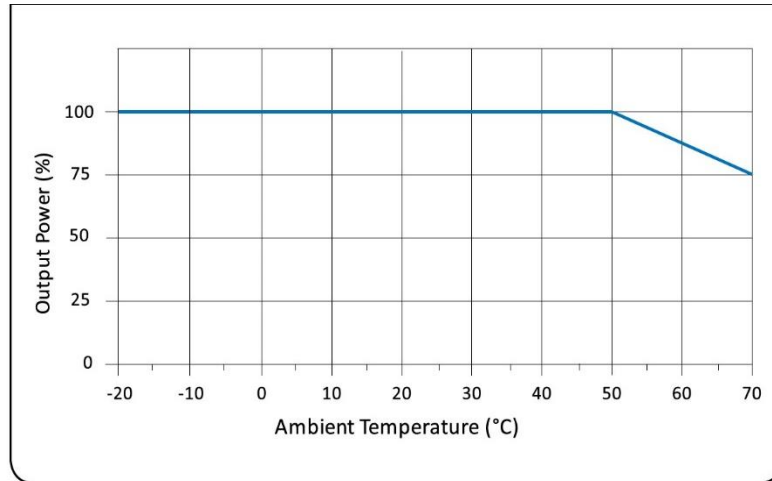
■ **Technical Data(cont.)**

Transient Response	<10%, 50% to 100% load change, 50/60Hz, 50% duty cycle, 0.1A/μs, recovery time <5ms
Rise Time	<100ms
Set Point Tolerance	V1: ±3%; V2 & V3: ±5%
Output Adjustability	V1: ±10%
Over Current Protection	130% typical above rating
Over Voltage Protection	130% typical for V1 only
Short Circuit Protection	Short term, auto recovery
Switching Frequency	Approximately 67kHz
Operating Temperature	-20-70°C, refer derating curve; -20-0°C, start-up is guaranteed
Storage Temperature	-40-+85°C
Relative Humidity	95% Rh, noncondensing
Altitude	Operating: 10,000ft.; Nonoperating: 40,000 ft.
MTBF	1.87m Hours, Telcordia-SR332-issue 3
Isolation Voltage	Min. 5700Vdc between input to output, 2MOPP, 1500Vac input to ground, 1MOPP; 500Vac output to ground
Cooling	Convection

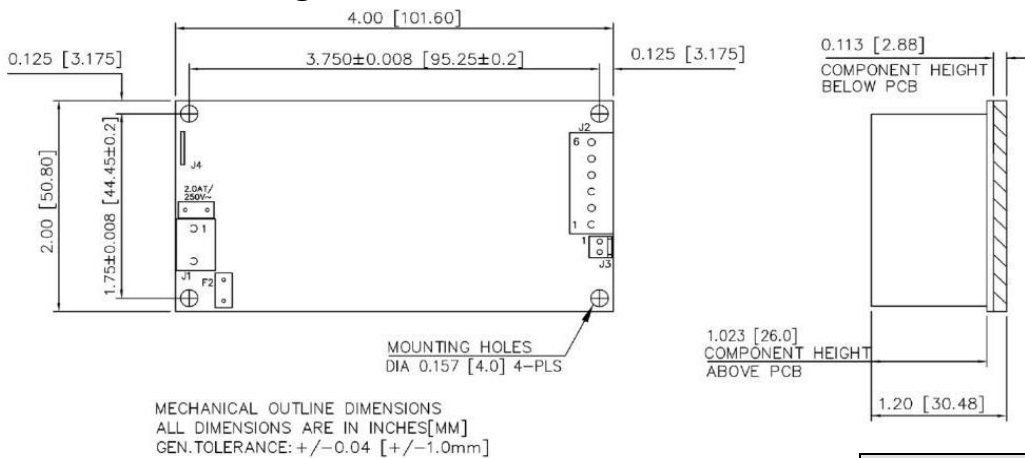
■ **Safety and EMC Approval**

CE Mark	Complies with LVD Directive
Conducted Emissions	EN55022-B, CISPR22-B, FCC Par15-B
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 Part15-B to be controlled in end system
Surge Susceptibility	EN61000-4-5, Level-3
Harmonic Current	EN61000-3-2, Class A
Safety Standards	EN60601-1, IEC60601-1(3 <sup>rd</sup> edition). ANSI/AAMI ES 60601-1, CSA C22.2 No. 60601-1
Approval Agency	Nemko, UL, cUL

Derating Curve



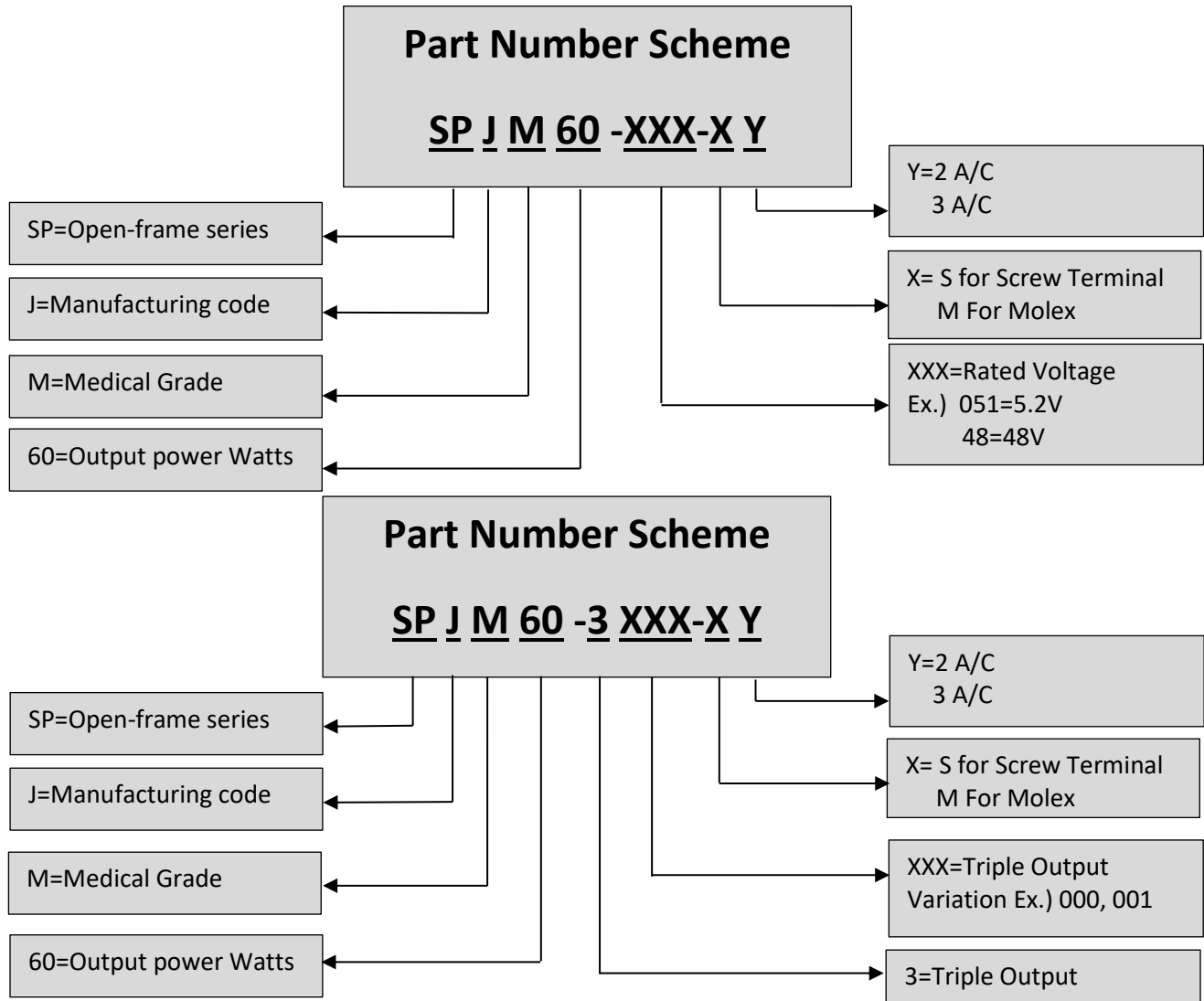
Mechanical Diagram



- Notes: In case the PCB is mounted in a metal enclosure, using metal hardware ensure the following
- Stand off, used to mount PCB has OD of 5.4 mm max.
  - Screws, used to fix PCB on stand off, have head dia of 6.0 mm max.
  - Washer, if used, to have dia of 6.5 mm max.

Mechanical Specifications	
AC Input Connector (J1)	Molex: 26-60-4030 or equivalent Mating: 09-50-3031; Pins: 08-50-0106
Earth	Molex: 19705-4301 Mating: 190030001
DC Output Connector (J2)	Tyco: 640445-6 or equivalent Mating: 647402-6; Pins: 3-647409-1
Signal Connector (J3)	Molex: 22-23-2021 or equivalent Mating: 22-01-2021
Dimensions	4x2x1.2 in. (101.6x50.8x30.48mm)
Weight	150g

Connectors		
J1	Pin 1	AC Neutral
	Pin 2	AC Line
Spade Connector		Earth
J2	Pin 1	V1
	Pin 2	V1
	Pin 3	RTN
	Pin 4	RTN
	Pin 5	V3
J3	Pin 1	+V1 Sense
	Pin 2	-V1 Sense



\*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.