

■ Features

- Single output: 100W(Convection cooling)
- Single output: 120W(Forced Air Cooling)
- Input voltage range: 90-264V
- Output current(1720mA-8330mA)
- Means of Protection: 2xMopp
- 2"x3" form factor
- Efficiency to 93%
- 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

- 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
SPJM120-120-XY	90-264Vac	100/120W	12V	0	8.33A/10A*	90%	UL/cUL
SPJM120-150-XY	90-264Vac	100/120W	15V	0	6.67/8A*	90%	UL/cUL
SPJM120-240-XY	90-264Vac	100/120W	24V	0	4.16A/5A*	91%	UL/cUL
SPJM120-300-XY	90-264Vac	100/120W	30V	0	3.33A/4A*	91%	UL/cUL
SPJM120-480-XY	90-264Vac	100/120W	48V	0	2.08A/2.5A*	93%	UL/cUL
SPJM120-580-XY	90-264Vac	100/120W	58V	0	1.72A/2.07A*	93%	UL/cUL

(\*Rated current measured with forced air cooling, and has an output power of 120W)

■ Technical Data

AC Input	90-264Vac
Input Frequency	47-63Hz
Input Current	115Vac: 1.2A max 230Vac: 0.65A max
No load Power	Less than 0.3W typical
Inrush Current	115Vac: 25A, 230Vac: 45A, 264Vac: 75A
Leakage Current	300uA Typical (N.A. for Class II option) touch current <100uA
Hold-up Time	> 10ms
Power Factor	Exceeds 0.95 with full load, Active PFC
Output Power	Forced cooling: 120W with 300LFM Convection cooling: 100W (100-264Vac)
Output Voltage Adjustability	±3%
Line Regulation	±0.5%
Load Regulation	±1%
Transient Response Rise Time	25% step load change, at 0.1A/uS slew rate, 50% duty cycle, 50Hz=4% recovery time <5ms 55ms typical

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■ **Technical Data(cont.)**

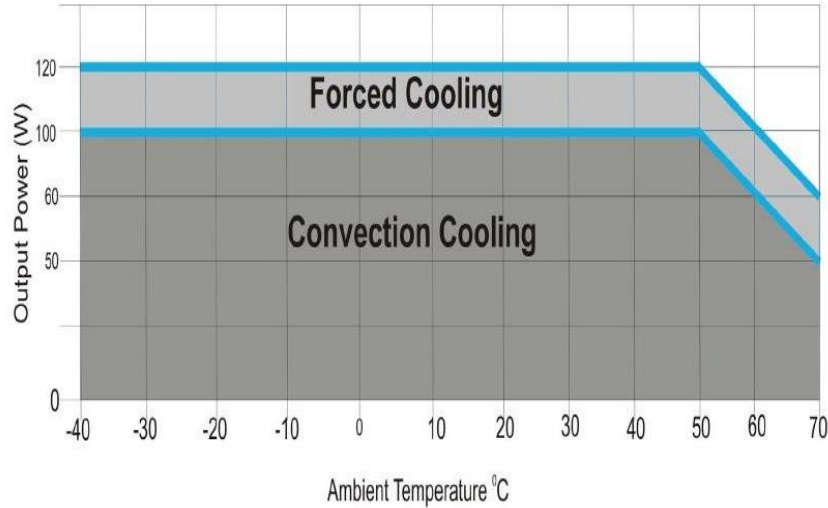
Set Point Tolerance	±1%
Over Current Protection	110%
Over Voltage Protection	110% to 140%, Latch type(AC recycling required)
Short Circuit Protection	Hiccup mode
Switching Frequency	60kHz typical
Operating Temperature	-40-+70°C
Storage Temperature	-40-+85°C
Relative Humidity	5%-95% Rh, noncondensing
Altitude	Operating: 16,000ft.; Nonoperating: 40,000 ft.
MTBF	3.0m Hours, Telcordia-SR332-issue 3
Isolation Voltage	Input to output -4000Vac for medical application Input to GND – 1500Vac (not applicable for Class II option) Output to GND-1500Vac for type BF, 500Vac for type B(Not applicable for Class II option)
Protection level	Primary to Secondary: 2MOPP, Primary to Earth: 1 MOPP, Secondary to Earth: 1MOPP

■ **Safety and EMC Approval**

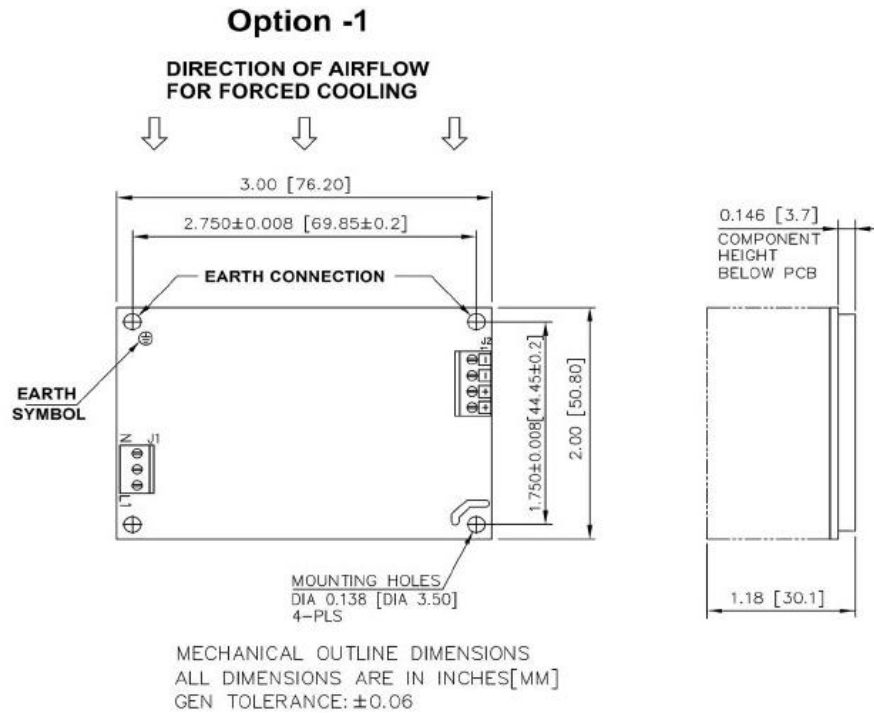
CE Mark	Complies with LVD Directive
Conducted Emissions	EN55022-B, CISPR22-B, FCC Part15-B
Static Discharge	EN61000-4-2, Level-3
RF Field Susceptibility	EN61000-4-3, Level-3
Fast Transients/Bursts	EN61000-4-4, Level-3
Radiated Emissions	Level A radiated, Level B radiated with external core (King core K5B RC 25x12x15-M in input cable with 5 turns)
Surge Susceptibility	EN61000-4-5, Level-3
Harmonic Current	EN6100-3-2, Class D
Safety Standards	EC/EN 60601-1 Edition 3.0+AM1, ANSI/AAMI ES60601-1 and CAN/CSA-C22.2 No. 60601-1
Approval Agency	Nemko, UL, cUL

■ Derating Curve

12V, 15V, 24V, 30V, 48V, 58V Output



■ Mechanical Diagram

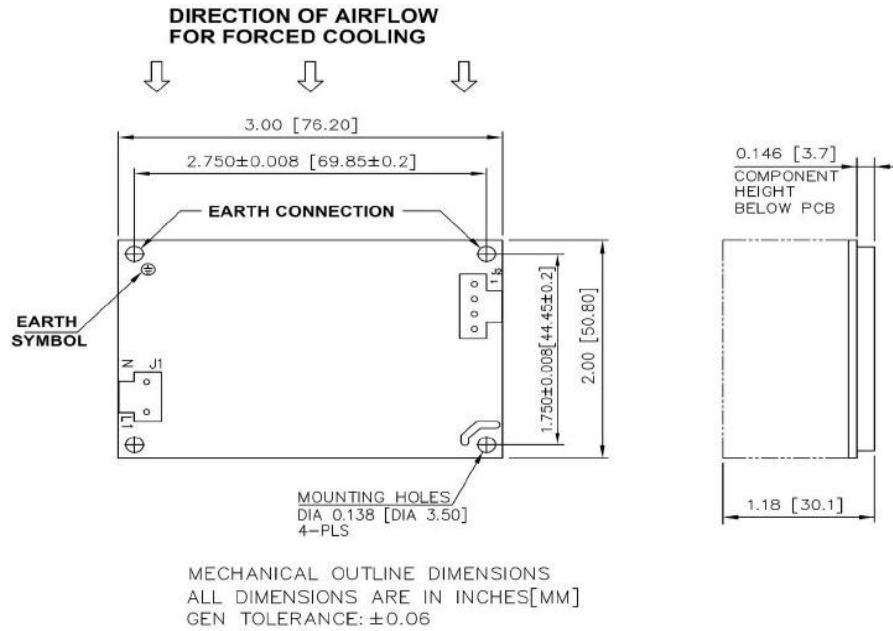


Notes: In case the PCB is mounted in a metal enclosure, using metal hardware ensure the following

1. Stand off, used to mount PCB has OD of 5.4 mm max.
2. Screws, used to fix PCB on stand off, have head dia of 6.0 mm max.
3. Washer, if used, to have dia of 6.5 mm max.

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■ Mechanical Diagram(cont.) **Option -2**

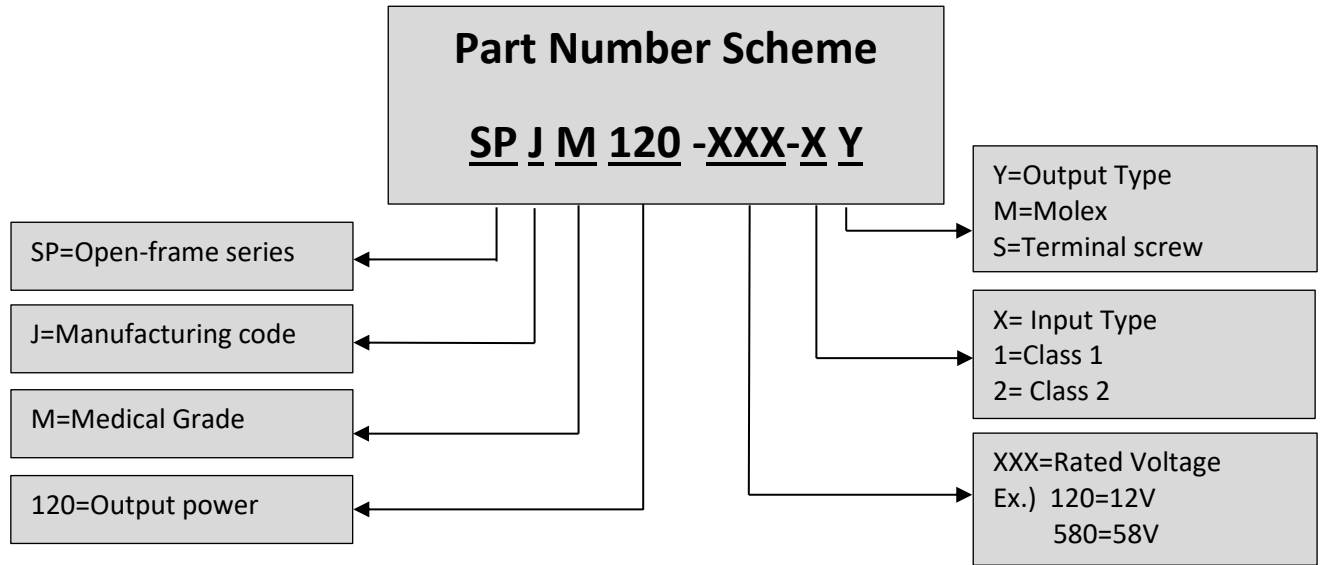


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Connectors		
J1	Pin 1	AC Line
	Pin 2	Not Fitted
	Pin 3	AC Neutral
J2	Pin 1, 2	V1 -VE
	Pin 3, 4	V1 +VE

Mechanical Specifications		
	Option 1	Option 2
AC Input Connector (J1)	Molex: 39357-0003 Tyco: 2-1776112-3	Molex:1722861103 (Mating conn: Molex 1722561003)
DC Output Connector (J2)	Molex: 39357-0004 Tyco: 2-1776112-4	Molex:1722861104 (Mating conn: Molex 1722561004)
Dimensions	3x2x1.18 in. (76.2x50.8x30.1mm)	
Weight	200g	



**\*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.**