

■ Features

- Single output: 100W(Convection cooling)
- Single output: 120W(Forced Air Cooling)
- Input voltage range: 90-264V
- Output current(1720mA-8330mA)
- 3"x2" 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

- 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 Min.	Output Current Max.	Efficiency	Certificates
SPJ120-120-XY	90–264Vac	100/120W	12V	0	8.33A/10A*	90%	UL/cUL
SPJ120-150-XY	90–264Vac	100/120W	15V	0	6.67/8A*	90%	UL/cUL
SPJ120-240-XY	90–264Vac	100/120W	24V	0	4.16A/5A*	91%	UL/cUL
SPJ120-300-XY	90–264Vac	100/120W	30V	0	3.33A/4A*	91%	UL/cUL
SPJ120-480-XY	90–264Vac	100/120W	48V	0	2.08A/2.5A*	93%	UL/cUL
SPJ120-580-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	120Vac: <500µA, 230Vac: <1000µA
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	25% step load change, at 0.1A/uS slew rate, 50% duty cycle, 50Hz=4% recovery time <5ms
Rise Time	55ms typical

Technical Sales / Customer Service: +1-818-338-7788 • Email: sales@autec.com
 31328 Via Colinas Suite 102 • Westlake Village, CA 91362 USA • www.autec.com

March 18, 2019

■ **Technical Data(cont.)**

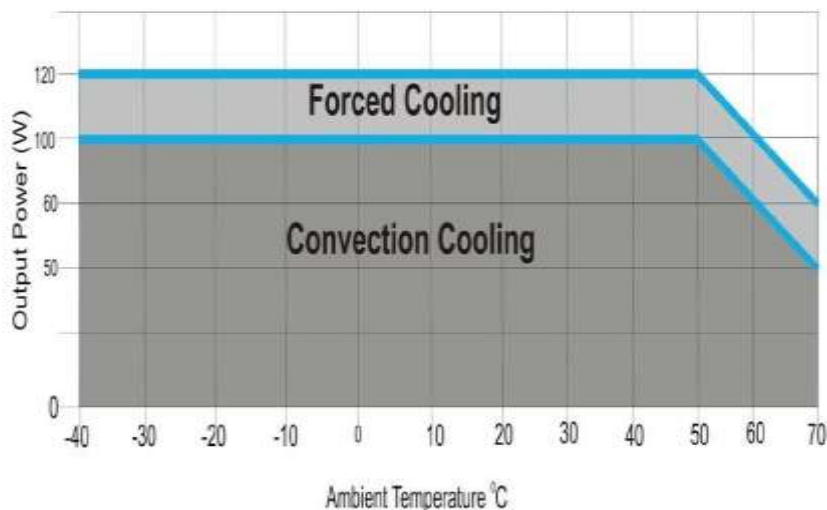
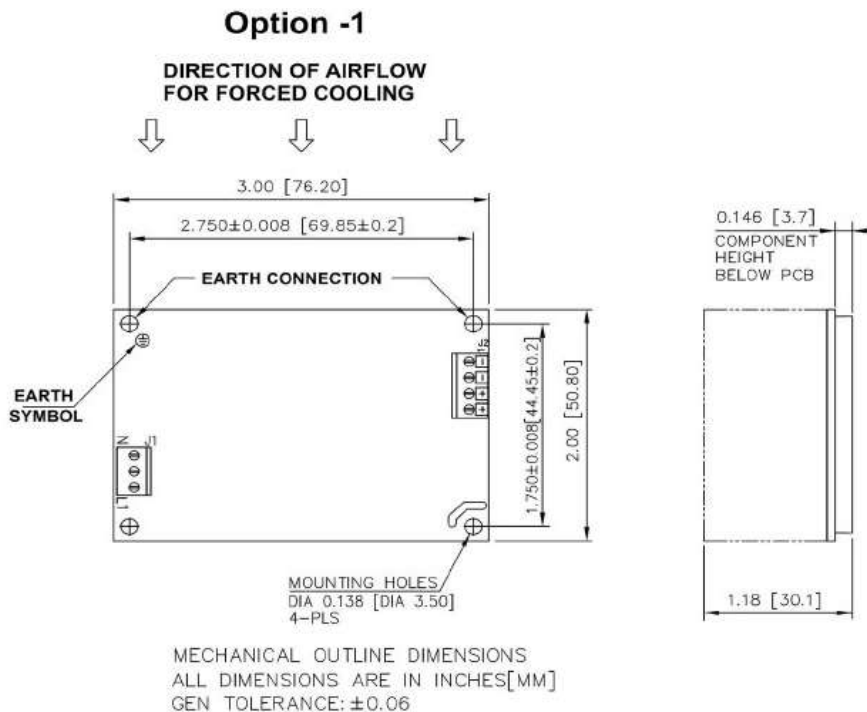
Set Point Tolerance	±1%
Over Current Protection	110%
Over Voltage Protection	110% to 140%, Latch type(AC recycling required)
Short Circuit Protection	Hiccup mode
Switching Frequency	60kHz typical
Operating Temperature	-40-+70°C
Storage Temperature	-40-+85°C
Relative Humidity	5%-95% Rh, noncondensing
Altitude	Operating: 16,000ft.; Nonoperating: 40,000 ft.
MTBF	3.0m Hours, Telcordia-SR332-issue 3
Isolation Voltage	Input to output -3000Vac for ITE application Input to GND – 1500Vac

■ **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	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	IEC/EN 60950-1:2006/ A11:2009/A1:2010/A12:2011/A2:2013, UL 60950-1, 2 nd edition CAN/CSA C22.2 No. 60950-1-07, 2 nd edition, GB4943. 1-2011; GB9254-2008; GB17625. 1-2012
Approval Agency	Nemko, UL, cUL, CCC

Derating Curve

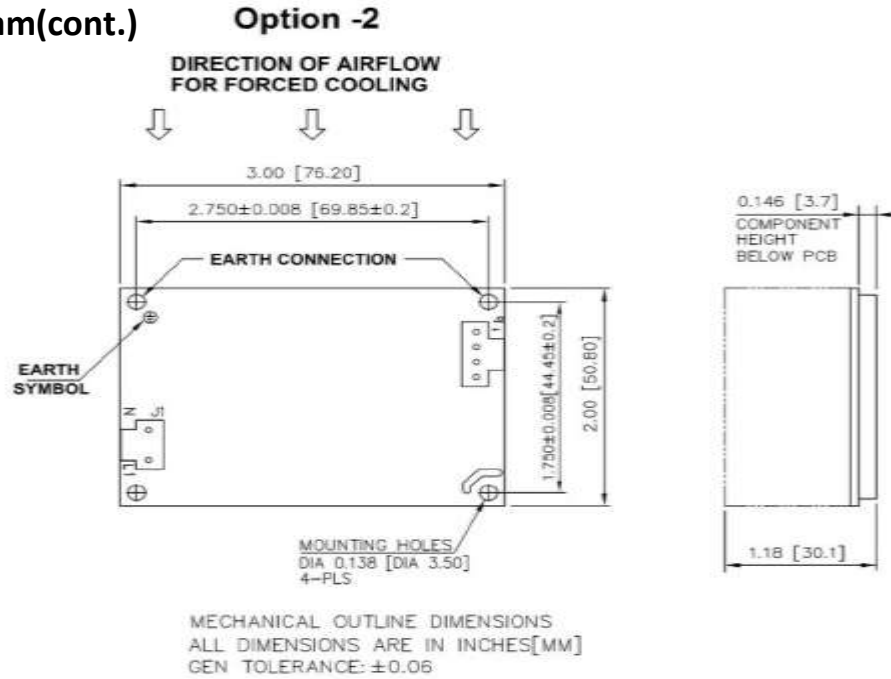
12V, 15V, 24V, 30V, 48V, 56V Output


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.

■ Mechanical Diagram(cont.)

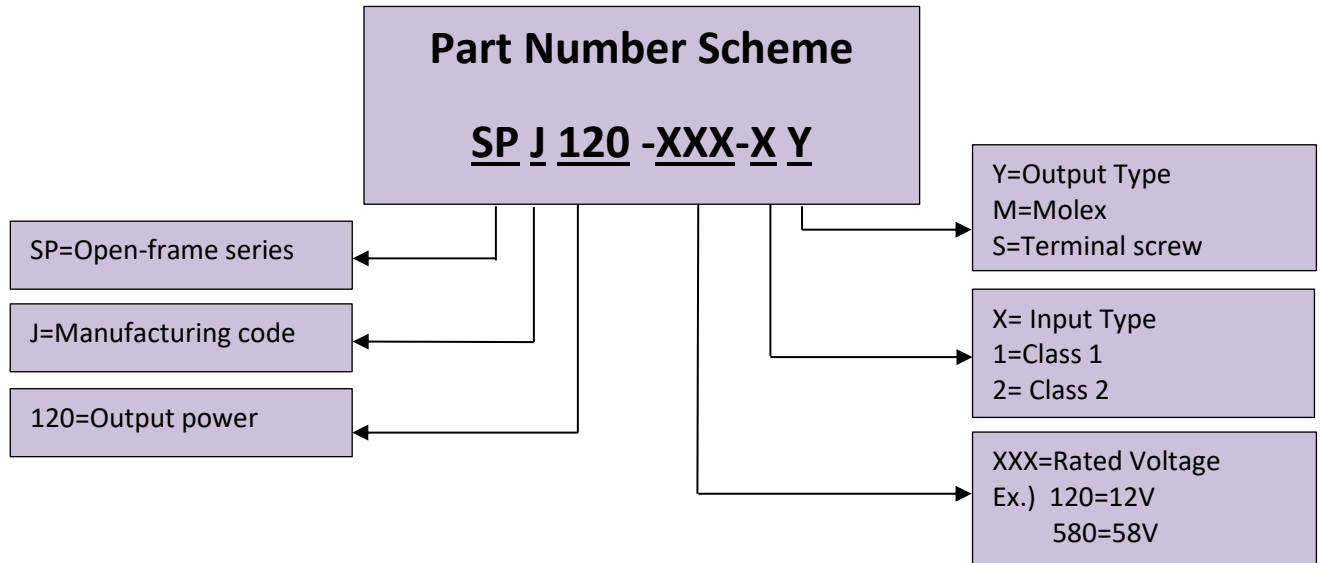


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Connectors		
J1	Pin 1	AC Line
	Pin 2	Not Fitted
	Pin 3	AC Neutral
J2	Pin 1, 2	V1 -VE
	Pin 3, 4	V1 +VE

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	



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