SPJ350 Series

180-350W, 90-264Vac Input, Single Output, Industrial Open-frame PSU

RoHS Compliant

Features

- Single output: 180-200W(Convection cooling)
- Single output: 300-350W(Forced Air Cooling)
- Input voltage range: 90-264V
- Output current(3450mA-25000mA)
- 3”x5” form factor
- Efficiency to 94%
- Protections: SCP, OCP, and OVP
- Class 1 & Class 2 options
- Cover kit accessory available
- 12V fan output

*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
SPJ350-120-XY	90–264Vac	180/300W	12V	0	15A/25A*	92%	UL/cUL
SPJ350-150-XY	90–264Vac	180/325W	15V	0	12A/21.6A*	92%	UL/cUL
SPJ350-240-XY	90–264Vac	200/350W	24V	0	8.33A/14.6A*	93%	UL/cUL
SPJ350-300-XY	90–264Vac	200/350W	30V	0	6.67A/11.67A*	93%	UL/cUL
SPJ350-480-XY	90–264Vac	200/350W	48V	0	4.17A/7.3A*	94%	UL/cUL
SPJ350-580-XY	90–264Vac	200/350W	58V	0	3.45A/6.04A*	94%	UL/cUL

(*Rated current measured with forced air cooling, and has an output power up to 350W)

Technical Data

AC Input	90-264Vac/390Vdc
Input Frequency	47-63Hz
Input Current	115Vac: 3.6A max 230Vac: 1.8A max
No load Power	Less than 0.5W
Inrush Current	115Vac: 25A, 230Vac: 45A, 264Vac: 75A
Leakage Current	300µA Typical
Hold-up Time	Full load>8 ms typical Convection Load>14 ms typical
Power Factor	Exceeds 0.95 with full load
Output Power	Forced cooling: 300-350W Convection cooling: 180-200W
Output Voltage Adjustability	±3%
Line Regulation	±0.5%
Load Regulation	±1%
Transient Response	50-100% step load change, at 0.1A/uS slew rate, 50% duty cycle, 50Hz=5%, recovery time <5 ms

■ Technical Data(cont.)

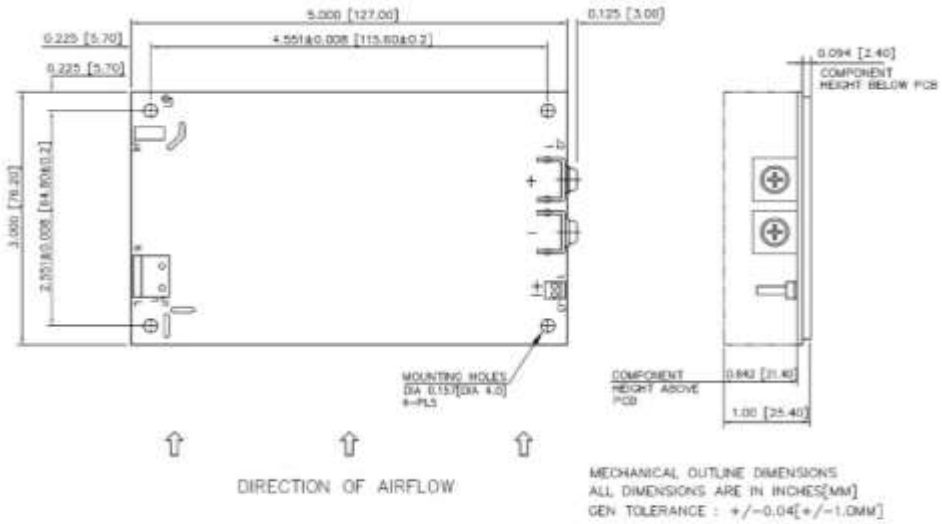
Rise Time	55ms typical
Set Point Tolerance	±1%
Over Current Protection	>110%, Hiccup mode/Auto Recovery
Over Voltage Protection	110% to 140%, Hiccup mode/Auto Recovery
Short Circuit Protection	Hiccup mode/Auto Recovery
Switching Frequency	PFC-70 to 130KHz, PWM-50 to 80KHz
Operating Temperature	-40-+70˚C, -40 to 0˚C startup is guaranteed with spec deviation
Storage Temperature	-40-+85˚C
Relative Humidity	5-95% Rh, noncondensing
Altitude	Operating: 16,000ft.; Nonoperating: 40,000 ft.
MTBF	2.56m Hours, Telcordia-SR332-issue 3
Isolation Voltage	Input to Output-3000Vac for ITE application Input to GND -1500Vac
Cooling	Forced Cooling: 300-350W Convection: 180-200W

■ Safety and EMC Approval

Conducted Emissions	EN55022-B, CISPR22-B, FCC Par15 Class B
Radiated Emissions	EN 55032 Level A radiated Level B radiated with external core (King core K5B RC 25x12x15-M in input cable {5 turns})
Harmonic Current	EN6100-3-2, Class D
Voltage Actuation and Flicker	EN6100-3-3
ESD Immunity	EN61000-4-2, Level-3
RF Field Immunity	EN61000-4-3, Level-3
Electrical Fast Transient Immunity	EN61000-4-4, Level-3
Surge Immunity	EN61000-4-5, Level-3
Conducted Immunity	EN 61000-4-6, Level-3
Magnetic field Immunity	EN 61000-4-8, Level-3
Voltage dips, Interruptions	EN 61000-4-11, Criterion A & B
CE Mark	Complies with LVD Directive
Approval Agency	Nemko, UL, cUL, CCC
Safety Standards	EN60950-1, IEC60950-1 (2nd edition), UL60950(2nd edition), CSA C22.2 No.60950-1 (2nd edition), Class 1 SELV, GB4943. 1-2011; GB9254-2008; GB17625. 1-2012

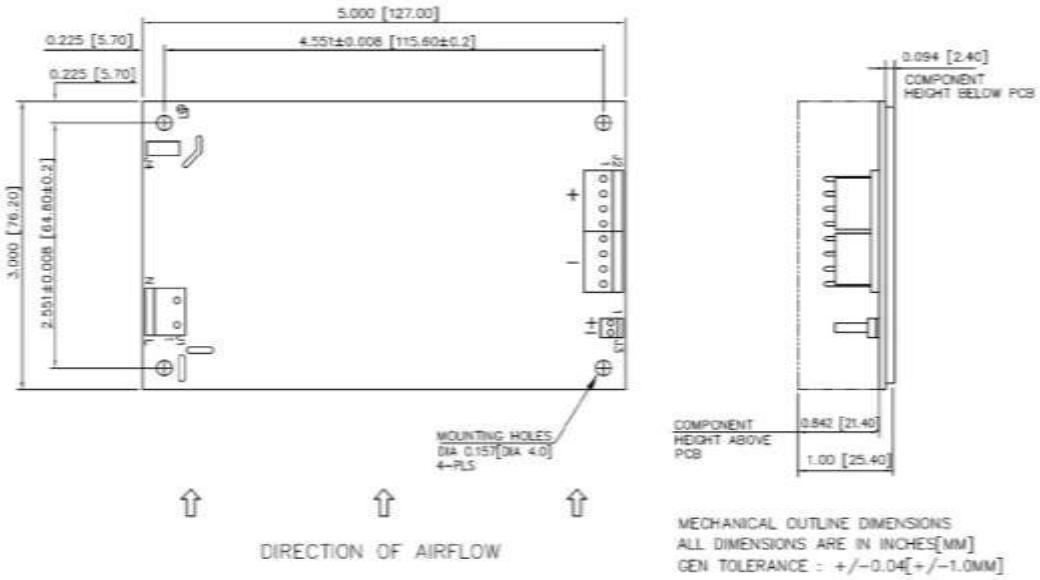
■ Mechanical Diagram

-Terminal Screw



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.

-Molex Terminal



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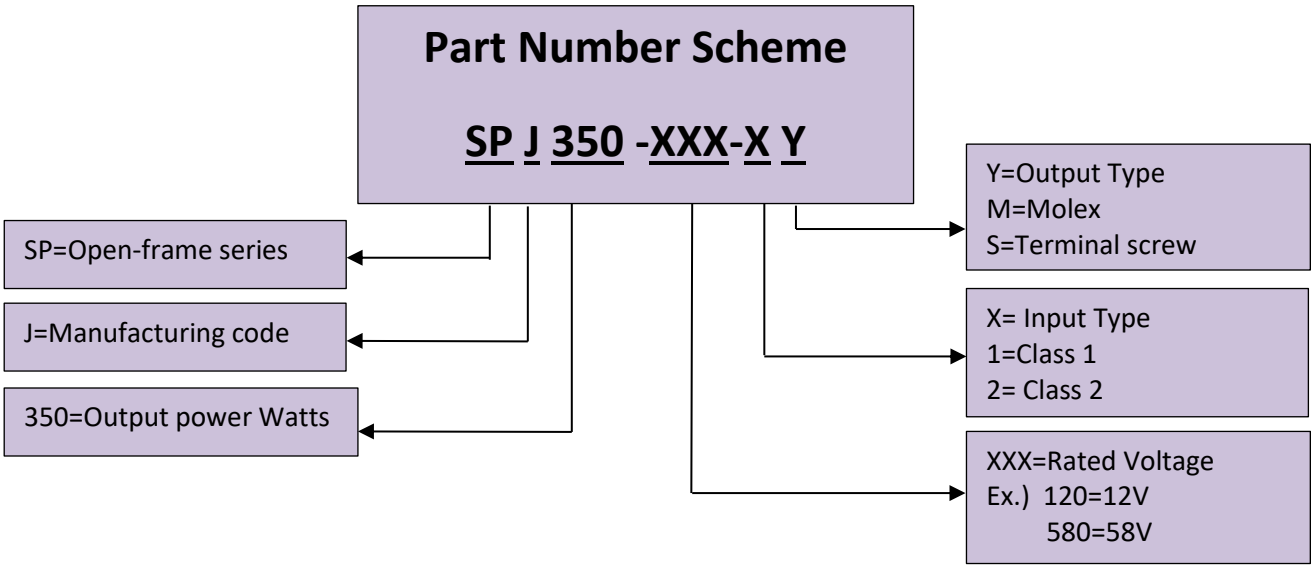
Connectors		
J1	Pin 1	AC Line
	Pin 2	Not Fitted
	Pin 3	AC Neutral
J2 Option 1 (Screw Terminal)	Pin 1	V1 +VE
	Pin 2	V1 -VE
J2 Option 2 (Molex Connector)	Pin 1, 2, 3, 4	V1 +VE
	Pin 5, 6, 7, 8	V1 -VE
J3	Pin 1	FAN +VE
	Pin 2	FAN -VE

Mechanical Specifications		
AC Input Connector (J1)	Molex: 26-60-4030 or equivalent Mating: 09-50-3031; Pins: 08-50-0106	
Earth (J4)	Molex: 19705-4301 Mating: 19003-0001	
DC Output Connector (J2)	Option 1 Screw Terminal	Option 2 Molex Connector
	6-32 inches Screw Pan HD Mating: Designed to accept Ring Tongue Terminal AMP: 8-31886-1 wherein one 16AWG(max) wire can be crimped Note: One Ring Tongue Terminal with 16AWG is recommended for current up to 11A only. Use Multiple tongue terminals with wire for more current.	Molex: 26-60-4080 Mating: 09-50-3081; Pins: 08-50-0106
Aux(Fan) Output(J3)	AMP: 640456-2 Mating: 640440-2	
Dimensions	5x3x1 in. (127x76.2x25.4mm)	
Weight	300g	



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