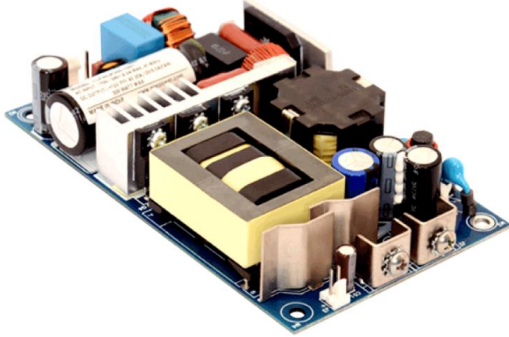


SPJM350 Series, 350W Medical type Open Frame



Features

- 5 x 3 x 1 Inches Form factor
- 350 Watts with Forced Air Cooling & 200 Watts Convection Cooling
- Efficiencies upto 94%
- -40 to 70 degree operating temperature*
- 12V / 0.5A Fan Output, Thermal Shut-Down feature
- 2.56m Hours, Telcordia -SR332-issue 3 MTBF
- Standby Power < 0.5W
- 7 Year Extended Warranty Option
- Medical (BF) Safety Approvals
- Meets standard IEC60601-1-2 : 2014 (4th Edition)

Electrical Specifications

Input Voltage	90-264 VAC/390 VDC, Universal (Derate from 100% at 100V AC to 90% at 90V AC)	
Input Frequency	47-63 Hz	
Input Current	115 VAC: 3.6 A max.	230 VAC: 1.8 A max.
No Load Power	less than 0.5W typical	
Inrush Current	115 VAC – 25 A, 230 VAC – 45 A, 264 VAC – 75 A	
Leakage Current	300 uA Typical	Touch current < 100uA
Efficiency	94%(48V,58V), 93%(24V,30V), 92%(12V,15V)	
Hold-up Time	Full Load > 8 ms typical	Convection Load > 14 ms typical
Power Factor	exceeds 0.95 with Full Load	
Output Power	upto 350W with 375 LFM, upto 200W Convection	
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	
Rise Time	55 ms 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 130 KHz ,PWM – 50-80 KHz	
Operating Temperature	-40 to +70°C, * -40 to 0°C startup is guaranteed with spec deviation (ref note 6)	
Storage Temperature	-40 to +85°C	
Relative Humidity	5% to 95%, noncondensing	
Altitude	Operating: 16,000 ft.; Nonoperating: 40,000 ft.	
MTBF	2.56m Hours, Telcordia -SR332-issue 3	
Isolation Voltage	Input to Output – 4000 VAC medical applications. Input to GND - 1500 VAC , Output to GND- 1500VAC for type BF , 500 VAC for type B	
Cooling	350W with 375 LFM forced air cooling at 100 to 264VAC 200W with natural convection cooling at 100 to 264VAC.	



Sales / Technical Support: +1-818-338-7788 Option 3
 Email: sales@autecpower.com

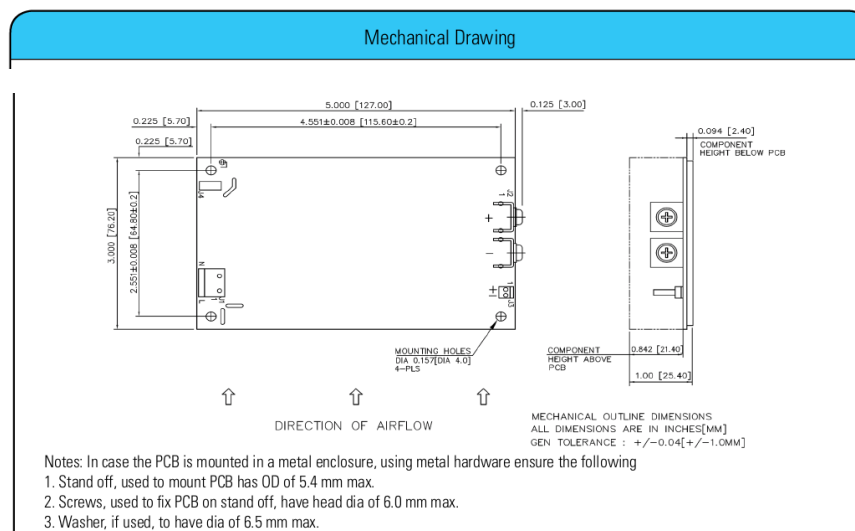
Available outputs:

Model	Output Voltage	Max. Load	Min. Load	Ripple
SPJM350-120-XY	12V	15A / 25A AIR	0.0A	1%
SPJM350-120-XY	15V	12A / 21.60A AIR	0.0A	1%
SPJM350-120-XY	24V	8.33A / 14.60A AIR	0.0A	1%
SPJM350-120-XY	30V	6.67A / 11.67A AIR	0.0A	1%
SPJM350-120-XY	48V	4.17A / 7.30A AIR	0.0A	1%
SPJM350-120-XY	58V	3.45A / 6.04A AIR	0.0A	1%

Mechanical Specifications		
AC Input Connector (J1)	Molex: 26-60-4030 Mating: 09-50-3031; Pins: 08-50-0106	
Earth (J4)	Molex: 19705-4301 Mating: 19003-0001	
DC Output Connector (J2) Option 1 (Screw Terminal)	6-32 inches Screw Pan HD Mating: Designed to accept Ring Tongue Terminal AMP : 8-31886-1, wherein one 16 AWG(max) wire can be crimped. Note : One Ring Tongue Terminal with 16 AWG is recommended for current upto 11A only. Use multiple tongue terminals with wire for more current.	
DC Output Connector (J2) Option 2 (Molex Connector)	Molex: 26-60-4080 Mating: 09-50-3081; Pins: 08-50-0106	
Aux (Fan) Output (J3)	AMP : 640456-2 Mating: 640440-2	
Dimensions	5 x 3 x 1 inches (127 x 76.2 x 25.4 mm)	
Weight	300 gm approx	
EMC		
Parameter	Conditions/Description	Criteria
Conducted Emissions	EN 55011-B, CISPR22-B, FCC PART15-B	Pass
Radiated Emissions	EN 55011 A	Pass Level B with external core (King core K5B RC 25x12x15-M in input cable)
Input Current Harmonics	EN 61000-3-2	Class D
Voltage Fluctuation and Flicker	EN 61000-3-3	Pass
ESD Immunity	EN 61000-4-2	Level 4, Criterion A
Radiated Field Immunity	EN 61000-4-3	Level 3, Criterion A
Electrical Fast Transient Immunity	EN 61000-4-4	Level 3, Criterion A
Surge Immunity	EN 61000-4-5	Level 3, Criterion A
Conducted Immunity	EN 61000-4-6	Level 3, Criterion A
Magnetic Field Immunity	EN 61000-4-8	Level 4, Criterion A
Voltage dips, interruptions	EN 61000-4-11	Criterion B
Safety		
CE Mark	Complies with LVD Directive	
Approval Agency	Nemko, UL, C-UL	
Safety Standard(s)	EN60601-1, IEC 60601-1 (ed.3), ANSI/ AAMI ES 60601 - 1, CSA C22.2 No. 60601-1	

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 drawing single-output with Terminal Screws



Mechanical drawing single-output with Molex Terminal

