

SPJM225 Series, 225W Medical type Open Frame



Features

- 4 x 2 x 1 Inches Form factor
- 225 Watts with Forced Air Cooling
- 7 Year Extended Warranty Option
- Efficiencies upto 94%
- -40 to 70 degree operating temperature*
- Dual fusing
- 12V / 0.5A Fan Output, Thermal Shut-Down feature
- 3.37m Hours, Telcordia -SR332-issue 3 MTBF
- Standby Power < 0.5W
- Medical (BF) Safety Approvals

Electrical Specifications

Input Voltage	85-264 VAC/390 VDC, Universal (Derate from 100% at 100V AC to 95% at 85V AC)
Input Frequency	47-63 Hz
Input Current	115 VAC: 2.2 A max. 230 VAC: 1.1 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, (N.A. For Class II Option) Touch current <100uA
Efficiency	94%(48V), 93%(24V,30V), 92%(12V,15V)
Hold-up Time	at 225W:10 ms ; 110W: 16 ms
Power Factor	exceeds 0.95 with Full Load
Output Power	225W with 13 CFM, upto 120W Convection
Line Regulation	+/-0.5%
Load Regulation	+/-0.5%
Transient Response	25% step load change, at 0.1A/uS slew rate, 50% duty cycle, 50Hz=4% , recovery time < 5 ms
Rise Time	55ms typical
Set Point Tolerance	+/-1%
Over Current Protection	>110%
Over Voltage Protection	110 to 140%
Short Circuit Protection	Hiccup mode
Switching Frequency	PFC – 70 to 130 KHz ,PWM – 50-80 KHz
Operating Temperature [†]	-40 to +70°C
Storage Temperature	-40 to +85°C
Relative Humidity	5% to 95%, noncondensing
Altitude	Operating: 16,000 ft.; Nonoperating: 40,000 ft.
MTBF	3.37m Hours, Telcordia -SR332-issue 3
Isolation Voltage	Input to Output – 4000 VAC medical applications. Input to GND - 1500 VAC (Not Applicable For Class II Option) Output to GND- 1500VAC for type BF , 500 VAC for type B (Not Applicable For Class II Option)
Cooling	225W with 13 CFM forced air cooling [‡] (refer Mechanical Drawing) upto 120W with natural convection cooling [‡] (refer Derating Curve)



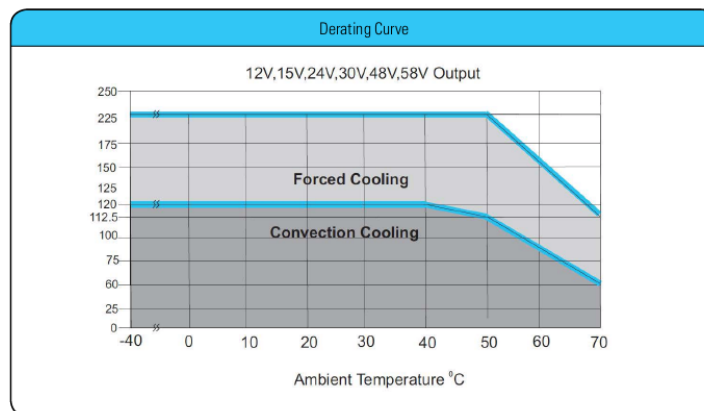
Sales / Technical Support: +1-818-338-7788 Option 3
 Email: sales@autecpower.com

Available outputs:

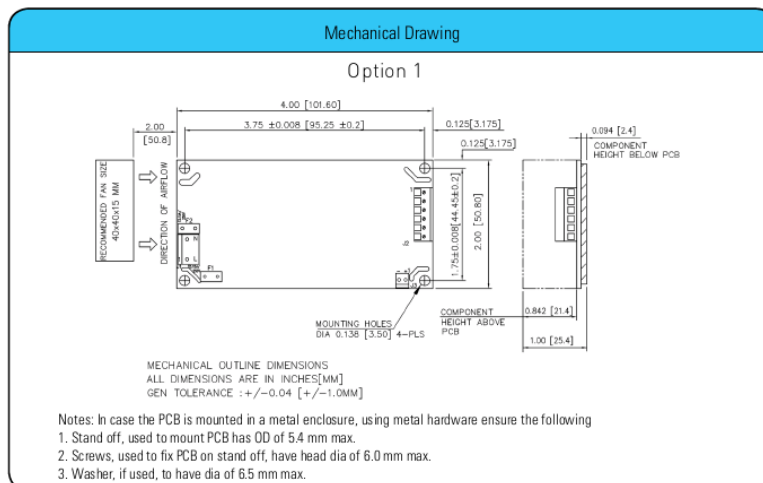
Model	Output Voltage	Max. Load	Min. Load	Ripple
SPJM220-120-XY	12V	10A / 18.75A AIR	0.0A	1%
SPJM220-150-XY	15V	8A / 15A AIR	0.0A	1%
SPJM220-240-XY	24V	5A / 9.37A	0.0A	1%
SPJM220-300-XY	30V	4A / 7.5A	0.0A	1%
SPJM220-480-XY	48V	2.5A / 4.68A	0.0A	1%
SPJM220-580-XY	58V	2.07A / 3.88A	0.0A	1%

Mechanical Specifications	
AC Input Connector (J1)	Molex: 26-60-4030 Mating: 09-50-3031; Pins: 08-50-0106
DC Output Connector (J2) Option 1 (Screw Terminal)	Molex: 39357 Series or equivalent
DC Output Connector (J2) (Molex Connector)	Molex: 26-60-4060 Mating: 09-50-3061; Pins: 08-50-0106
Aux (Fan) Output(J3)	AMP :640456-2 Mating: 640440-2
Dimensions	4 x 2 x 1 inches (101.60 x 50.8x 25.4 mm)
Weight	200 gm approx
EMC	
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 (5 turns))
Surge Susceptibility	EN61000-4-5, Level-3
Harmonic Current	EN61000-3-2, Class D
Safety	
Safety Standard(s)	EN60601-1, IEC 60601-1(ed.3), ANSI / AAMI ES 60601 - 1, CSA C222 No. 60601-1

Connectors		
J1	Pin 1	AC LINE
	Pin 2	NOT FITTED
	Pin 3	AC NEUTRAL
J2 Option 1 & 2	Pin 1,2,3	V1 +VE
	Pin 4,5,6	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

