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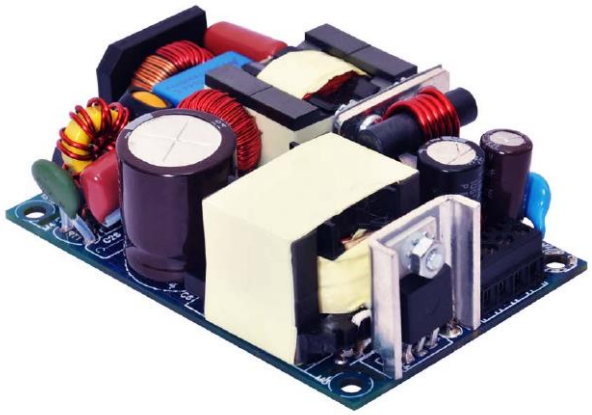
SPMJ75 Series, 75W Medical type Open Frame



Features

- 3 x 2 x 1 Inches Form factor
- 75 Watts Convection
- Approval to EN60601 3rd Edition, Dual fusing
- Efficiencies upto 93%
- -40 to 70°C operating temperature, Thermal Shut-Down
- Suitable for BF applications
- Means of Protection : 2xMOPP
- 2.00m Hours, Telcordia -SR332-issue 3
- Standby Power < 0.3W
- Class II option available

Electrical Specifications

Input Voltage	85-264 VAC/390 VDC[s], Universal (Derate from 75W at 100V AC to 65W at 85V AC)
Input Frequency	47–63 Hz
Input Current	115 VAC: 1 A max. 230 VAC: 0.5 A max.
No Load Power	less than 0.3W 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	93%(48V,58V),91%(24V,30V),90%(12V,15V)
Hold-up Time	>16 ms typical
Power Factor	exceeds 0.95 with Full Load, Active PFC
Output Power	75W Convection
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 < 5 ms
Rise Time	55ms typical
Set Point Tolerance	+/–1%
Over Current Protection	Typ 110%
Over Voltage Protection	110 to 140%, Latch type (AC recycling required)
Short Circuit Protection	Hiccup mode
Switching Frequency	60 KHz typical
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	2.00m 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)
Protection Level	Primary to Secondary: 2 MOPP, Primary to Earth: 1 MOPP, Secondary to Earth: 1 MOPP
Cooling	75W with natural convection cooling at 100 to 264VAC.

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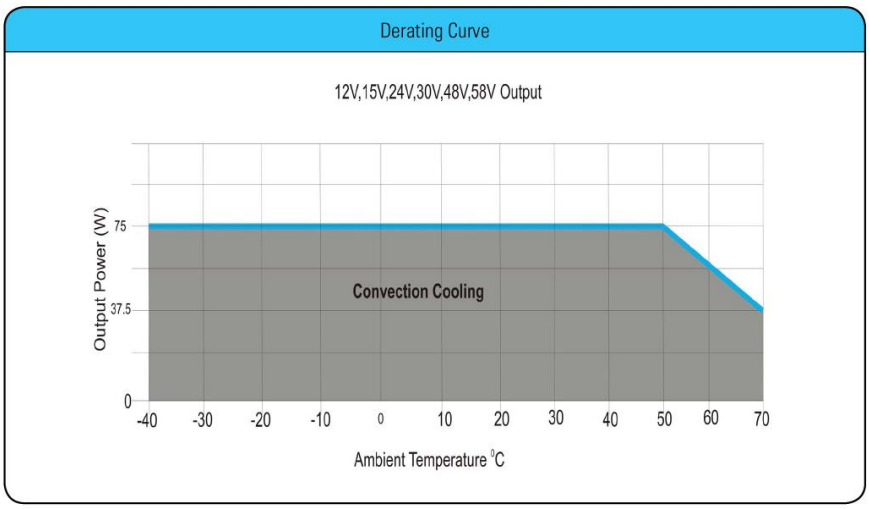
Available outputs:

Model	Output Voltage	Max. Load	Min. Load	Ripple
SPJM75-120-XY	12V	6.25A	0.0A	1%
SPJM75-150-XY	15V	5.00A	0.0A	1%
SPJM75-240-XY	24V	3.12A	0.0A	1%
SPJM75-300-XY	30V	2.50A	0.0A	1%
SPJM75-480-XY	48V	1.56A	0.0A	1%
SPJM75-580-XY	58V	1.29A	0.0A	1%

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



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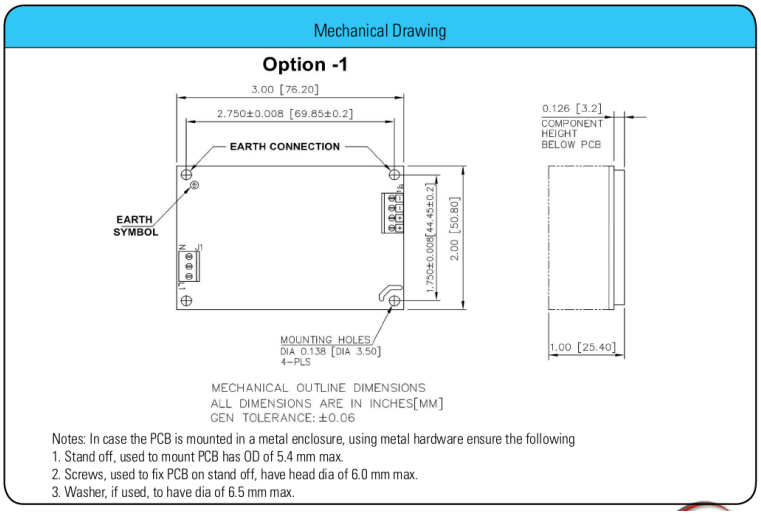
Mechanical Specifications			
AC Input Connector (J1) Option 1	Molex: 39357-0003 Tyco: 2-1776112-3	Option 2	Molex : 1722861103 (Mating conn: Molex 1722561003)
DC Output Connector (J2) Option 1	Molex: 39357 -0004 Tyco: 2-1776112-4	Option 2	Molex : 1722861104 (Mating conn: Molex 1722561004)
Dimensions	3 x 2 x 1 inches (76.2 x 50.8 x 25.4 mm)		
Weight	180gm Max.		
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 with 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 C22.2 No. 60601-1		
Approval Agency	Nemko, UL, C-UL		

Mechanical drawing single-output with Terminal Screws



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Mechanical drawing single-output with Molex Terminal