SFM120P Series

Open Frame, Switchmode Medical Power Supply
RoHS Compliant

Features:

- Universal Input 90 – 240 VAC
- Power Factor Correction
- Single, Dual, & Triple Outputs
- Input Surge Current Protection
- Over-Current Protection
- Over-Voltage Protection
- 100% Burn-In
- RoHS Compliant
- CEC Efficiency Level V

Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	1.7A @ 115VAC, 0.8A @ 230VAC, Full Load
Safety Ground Leakage Current	0.3mA Max. @ 240VAC, Full Load

Output

Output Voltage & Current	***See Chart***
Ripple & Noise (P-P)	1% Max., Full Load @ 90VAC Input
Over-Voltage Protection	Set at 112 - 132% of Nominal Output Voltage
Over-Current Protection	Set at 110 - 150% of Nominal Output Current
Temperature Coefficient	± 0.04% / °C Max.
Transient Response	Full Load to Half Load @ 100VAC Input: 4mS Max.

Environmental

Operating Temperature	0°C to 70°C
Derating	Derated from 100% at +40°C to 50% at +70°C
Storage Temperature	-40°C to 85°C
Relative Humidity	5% to 95% Non-Condensing

Electrical

Efficiency	88% Max.
Hold-Up Time	16mS Min.
Line Regulation	±1% Max. at Full Load
Load Regulation	±5% Max. at 230VAC
Inrush Current	54A @ 115VAC Max. 63A @ 230VAC Max. at 25°C Cold Start
Withstanding Voltage	5600 VDC from Input to Output, 2800 VDC from Input to Ground
Insulation Resistance	50 MΩ Min. from Output to Ground
Mean Time Between Failure (MTBF)	100,000 Hours Min., Full Load at 25°C Ambient

Safety

EMI Requirements	Meets Conduction Limits of: (A) CISPR-11 Class B (B) FCC Part 18 Class B
Safety Standards	Meets or Exceeds: (A) UR Listed (B) TUV (C) CE (D) CB

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Single Output Voltage and Current Chart

Model Number**	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SFM120P1XXR	5 - 6 VDC	22.00 - 18.33 A	5%	110W
SFM120P1XXR	6 - 9 VDC	19.16 - 12.77 A	5%	115W
SFM120P1XXR	9 - 11 VDC	13.33 - 10.90 A	4%	120W
SFM120P1XXR	12 - 13 VDC	10.0 - 9.23 A	3%	120W
SFM120P1XXR	14 - 16 VDC	8.57 - 7.50 A	3%	120W
SFM120P1XXR	17 - 21 VDC	7.06 - 5.71 A	3%	120W
SFM120P1XXR	22 - 27 VDC	5.45 - 4.44 A	2%	120W
SFM120P1XXR	28 - 33 VDC	4.29 - 3.63 A	2%	120W
SFM120P1XXR	34 - 40 VDC	3.53 - 3.00 A	2%	120W

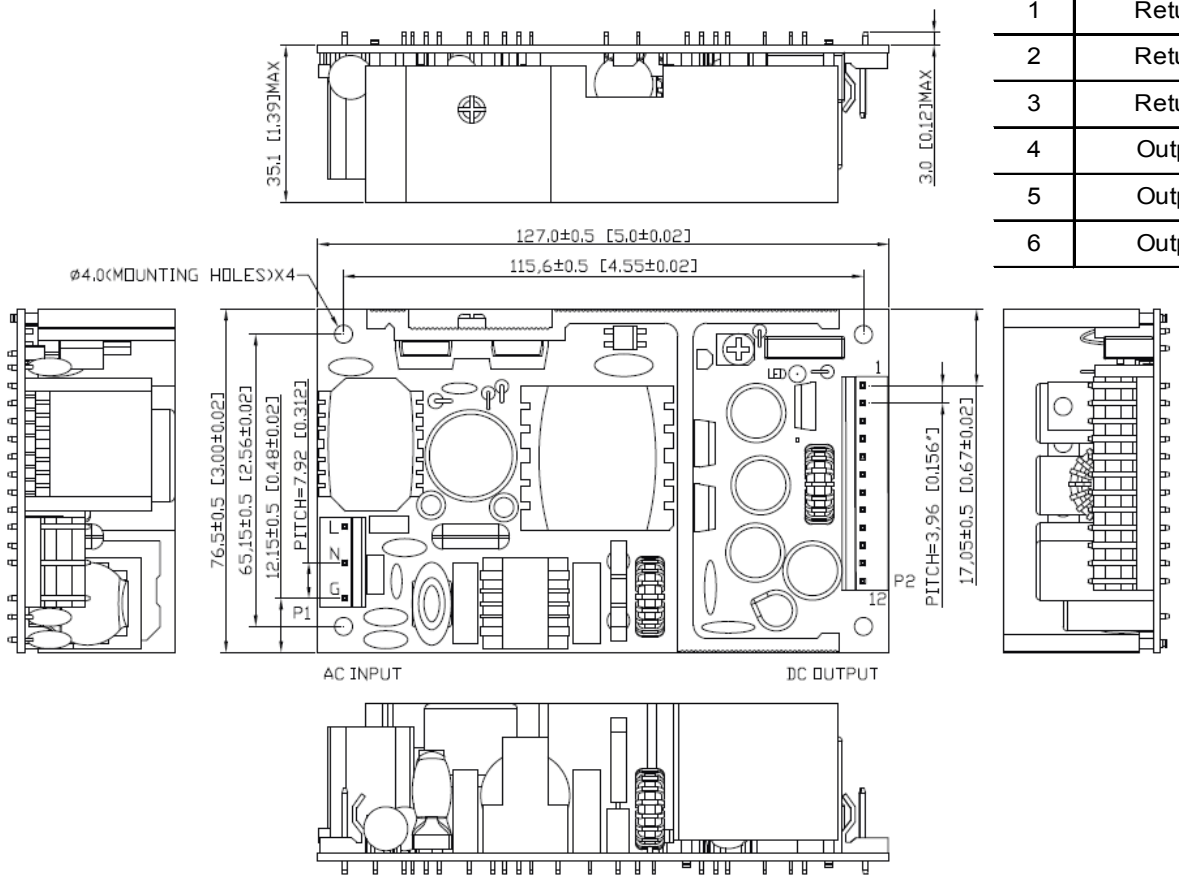
** To Determine Part Number:

Replace "XX" with Required Output Voltage (5VDC = "05", 12VDC = "12", 48VDC = "48", ect.)

Example: SFM120P1*24*R indicates a 24VDC Unit with 3-Pin Input.

Pin Connection

Pin	Single Output
1	Return
2	Return
3	Return
4	Output
5	Output
6	Output



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