

SMFA150 SERIES



150W Open-Frame Power Supply for Medical Equipment

- Wide Input Voltage 100 to 240 VAC, 47 to 63Hz
- Output Voltage Available From 12,24VDC
- Internal EMI filter
- Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal
- Output connector mates with Molex housing 09-50-3081 and Molex 2478 series crimp terminal
- Single Output
- Size: 3" x 5" x 1.44"
- Input Surge Current, Over Voltage and Overload protection
- Active Power Factor Correction

3 Year Warranty

Approvals:    

Single Output

Product Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
SMFA150-S05	12 VDC	12.5 A	5%	150W
SMFA150-S08	24 VDC	6.25 A	3%	150W

Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Input Voltage	Operating Voltage	100		240	VAC
Input Frequency		47		63	Hz
Power Factor Correction	Io=Full load, Vin=90~260VAC	0.95	0.97	1.00	
Output Power Range	Vin= 90 to 264 VA C	0		150	W
Input Current (Low Line)	Io=Full load, Vin=115 VAC			2	A
Input Current (High Line)	Io=Full load, Vin= 230 VAC			1	A
Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		46	54	A
High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC		57	63	A
Efficiency	Io=Full Load, Vin=230VAC	84	87	90	%
Line Regulation	Io=Full Load		0.5	1	%
Load Regulation	Vin=230VAC		3	5	%
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
Transient Response	Io=Full Load to Half Load, Vin=100VAC			4	mS
Hold-Up Time	Io=Full Load, Vin=110VAC	20			mS
Start Up Time	Io=Full Load, Vin=100VAC	0.3	1	2	S
Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC		0.5	1	%
Safety Ground Leakage Current	Io= Full Load, Vin=240VAC/60Hz		0.075	0.1	mA
Temperature Coefficient	All output	-0.04		0.04	%/°C

Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		0	50	70	°C
Storage Temperature		-40		85	°C
Relative Humidity		5		95	%
Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1M			Hrs
De-rate linearly from 100% load at 50°C to 50% load at 70°C					

Approvals and Compliances

Parameter	Test Conditions	Min.	Unit
Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	5656	VDC
Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2828	VDC
Isolation Resistance	Test Voltage = 500VDC	50	MΩ
EMI requirements for CISPR-11	Vin=220VAC	B	CLASS
EMI requirements for FCC PART-18	Vin=110VAC	B	CLASS

Mechanical and PIN out

PIN CHART

MODEL	PIN	1	2	3	4	5	6	7	8
SMFA150-SXX		Vout	Vout	Vout	Vout	RTN	RTN	RTN	RTN

Note:

1. Dimensions are shown in mm.
2. Weight: 420g approx.
3. Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3081 and Molex 2478 series crimp

