SMWA12C SERIES

12W Medical Grade Wall Mount Power Supply

- Wide Input Voltage 90 to 264 VAC, 47 to 63Hz
- European type 2 prong plug
- Single Output
- Output Voltage Available From 5VDC Thru 27VDC
- Over Voltage, Over Load, and Over Temperature Protection
- Class II Insulation
- Energy Star 2.0, CEC Level V, and RoHS Compliance

3 Year Warranty

Approvals:

Single Output

Part Number	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power
SMWA12C-S02	5 ~ 6 VDC	2.00 ~ 1.66 A	5%	10W
SMWA12C-S03	6 ~ 8 VDC	2.00 ~ 1.50 A	5%	12W
SMWA12C-S04	8 ~ 11 VDC	1.50 ~ 1.09 A	5%	12W
SMWA12C-S05	11 ~ 13 VDC	1.09 ~ 0.92 A	5%	12W
SMWA12C-S06	13 ~ 16 VDC	0.92 ~ 0.75 A	5%	12W
SMWA12C-S07	16 ~ 21 VDC	0.75 ~ 0.57 A	3%	12W
SMWA12C-S08	21 ~ 27 VDC	0.57 ~ 0.44 A	3%	12W

The total regulation on model S02~S03 is required to use AWG#18 / 6FT output cable.
The total regulation on model S04~S08 is required to use AWG#20 / 6FT output cable.
The regulation and efficiency are not guaranteed if changes the output cable

Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Input Voltage	Operating Voltage	90		264	VAC
Input Frequency		47		63	Hz
Output Power Range	Vin=90 to 264VAC	0		12	W
Input Current (Low Line)	Io=Full load, Vin=115VAC		0.25	0.35	A
Input Current (High Line)	Io=Full load, Vin=230VAC		0.17	0.22	A
Low Line Inrush Current	Io=Full load, 25°C Cool start, Vin=115VAC		14	16	A
High Line Inrush Current	Io=Full load, 25°C Cool start, Vin=230VAC		28	35	A
Efficiency	Io=Full Load, Vin=230VAC	73.3	77.7	85	%
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	10	16		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			0.1	mA
Temperature Coefficient	All output	-0.04		0.04	%/°C
No-Load Power Consumption	No load, Vin=240VAC			0.3	W
Thermal Shutdown By Junction Temperature Controller *	The parameter is not subject to production test-verified by design/characterization of integrated controller. Auto recovery.	-25		130	°C

*As long as faulty conditions have been removed , the adaptor will automatically power up as usual.

Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		0	50	70	°C
Storage Temperature		-40		85	°C
Relative Humidity		5		95	%
Operation temperature at 25°C, calculated per MIL-HDBK-217F		0.1M			Hrs
Derate 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
Meet EMI requirements: EN55022	Vin=230VAC, 50Hz	B	CLASS

Mechanical and PIN out

Note:

1. Dimensions are shown in mm.
2. Weight: 140gs approx.