

SMWA12A SERIES

12W Medical Grade Wall Mount Power Supply

- Wide Operating Voltage 80 to 275 VAC, 47 to 63Hz
- USA plug
- Single Output
- Crowbar Mode Over Voltage Protection
- Input to Output : 2MOPP
- High ESD immunity
- Suitable professional healthcare facility
- Efficiency level V

5 Year Warranty

Approvals:

Single Output

Model Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
SMWA12A-S02	5 ~ 5.99 VDC	2.00 ~ 1.66 A	±5%	10W
SMWA12A-S03	6 ~ 8 VDC	2.00 ~ 1.50 A	±5%	12W
SMWA12A-S04	8 ~ 11 VDC	1.50 ~ 1.09 A	±5%	12W
SMWA12A-S05	11 ~ 13 VDC	1.09 ~ 0.92 A	±5%	12W
SMWA12A-S06	13 ~ 16 VDC	0.92 ~ 0.75 A	±5%	12W
SMWA12A-S07	16 ~ 21 VDC	0.75 ~ 0.57 A	±3%	12W
SMWA12A-S08	21 ~ 27 VDC	0.57 ~ 0.44 A	±3%	12W

SMWA12A-S02~S03 are required to use AWG#18 / 6FT output cable.
 SMWA12A-S04~S08 are required to use AWG#20 / 6FT output cable.
 The regulation and efficiency will be changed by modified output cable.

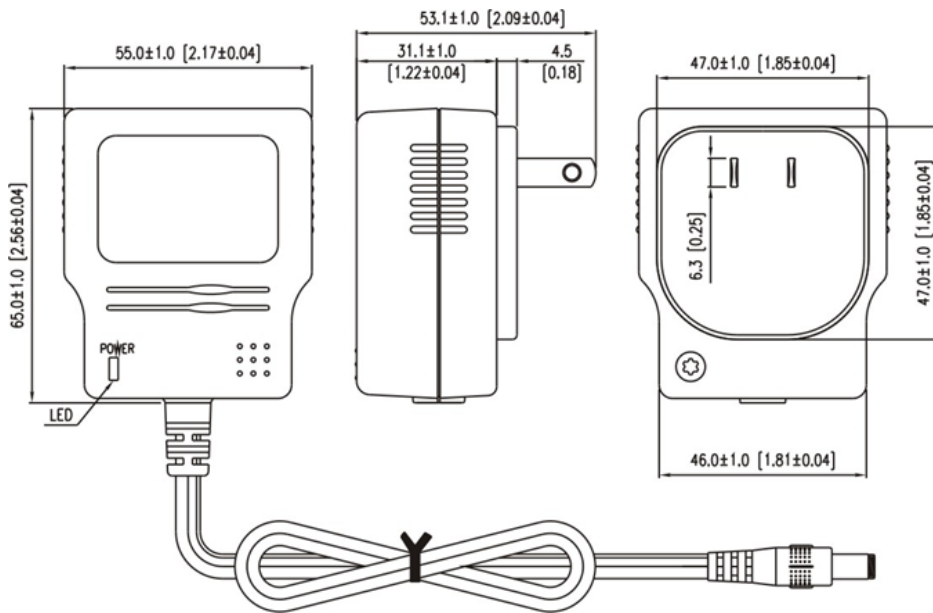
Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Safety Approvals Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Operate Voltage Range	Derate linearly from 100% load at 90VAC to 80% load at 80VAC	80		275	VAC
Input Frequency	Sine wave	47		63	Hz
Output Power Range	See Rating Chart			12	W
Low Line Input Current	Full load, Vin=100VAC		0.29		A
High Line Input Current	Full load, Vin=240VAC		0.26		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC			50	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC			100	A
Efficiency	Full Load, Vin=230VAC	74		81	%
Line Regulation	Full Load, Vin=100~120VAC			1	%
Over Voltage Protection		112		132	%
Over Load Protection	Recovers automatically after fault condition is removed	110		150	%
Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms
Hold-Up Time	Full Load, Vin=100VAC			12	ms
Start Up Time	Full Load, Vin=100~240VAC			2	s
Ripple & Noise (Peak to Peak)				1	%
Temperature Coefficient	All output			±0.04	%/°C
Dielectric Withstanding Voltage(P-S)	Primary to Secondary, limit current<10mA			4000	VAC
EMC Emission	Compliance to EN55011(CISPR11), EN60601-1-2	B			Class

Environmental

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	Derate linearly from 100% load at 50 to 50% load at 70	-10		70	°C
Storage Temperature	10~95% RH	-40		85	°C
Operating Humidity	non-condensing	0		95%	RH
Storage Humidity		0		95%	RH
Electro Static Discharge	Air Discharge, IEC61000-4-2			15	KV
Electro Static Discharge	Contact Discharge, IEC61000-4-2			8	KV
Mean Time Between Failure	Operation Temperature at 25 °C, Calculated per MIL-HDBK-217F	200K			h
Operating Altitude (Elevation)	All Condition			3000	m
Vibration	10~500Hz, 10min./1cycle, 60min.each along X, Y, Z axes			5	G
Surge Voltage	Line-Neutral			1	KV
Surge Voltage	Line-PE & Neutral-PE			2	KV

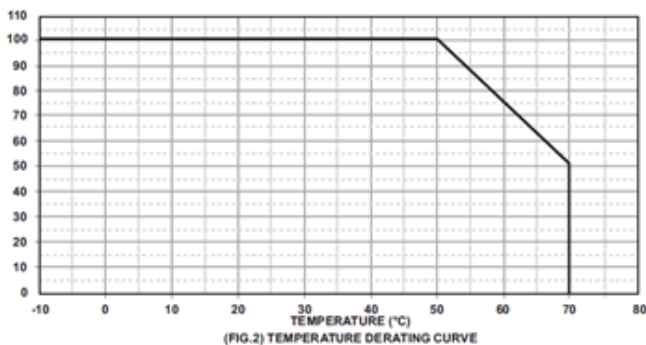
Mechanical Diagram



Note:

1. Dimensions are shown in mm.
2. Weight: 130gs approx.

Derating Chart



1. Operating Temperature: -10 to 70°C
2. Derate linearly from 100% load at 50°C to 50% load at 70°C