

SHWA15 SERIES

15W Multi-Plug Wall Mount for Medical Equipment



- Wide Operating Voltage 80 to 275VAC, 47 to 63Hz
- Interchangeable AC plug(USA, UK, Europe, Australia)
- Single Output
- Input to Output : 2MOPP
- High ESD immunity
- Suitable home healthcare environment
- Suitable professional healthcare facility

3 Year Warranty

Approvals:

Single Output

Model Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
SHWA15-S01	3 ~ 4.99 VDC	1.44 ~ 2.40 A	±5%	7.2W
SHWA15-S02	5 ~ 5.99 VDC	2.00 ~ 2.40 A	±5%	12W
SHWA15-S03	6.5 ~ 8 VDC	1.50 ~ 1.84 A	±5%	12W
SHWA15-S04	8 ~ 11 VDC	1.22 ~ 1.68 A	±5%	13.5W
SHWA15-S05	11 ~ 13 VDC	1.15 ~ 1.36 A	±5%	15W
SHWA15-S06	13 ~ 16 VDC	0.94 ~ 1.15 A	±5%	15W
SHWA15-S07	16 ~ 21 VDC	0.72 ~ 0.94 A	±5%	15W
SHWA15-S08	21 ~ 27 VDC	0.55 ~ 0.72 A	±5%	15W
SHWA15-S09	27 ~ 33 VDC	0.45 ~ 0.55 A	±3%	15W
SHWA15-S10	33 ~ 40 VDC	0.37 ~ 0.45 A	±3%	15W
SHWA15-S11	40 ~ 48 VDC	0.32 ~ 0.37 A	±3%	15W
SHWA15-S12	48 ~ 55 VDC	0.28 ~ 0.32 A	±3%	15W

SHWA15-S02~S04 required to use AWG#18/4FT output cable.

SHWA15-S05~S09 required to use AWG#20/4FT output cable.

SHWA15-S10~S11 required to use AWG#22/4FT output cable.

The regulation and efficiency will be changed by modified output cable.

Electrical Characteristics

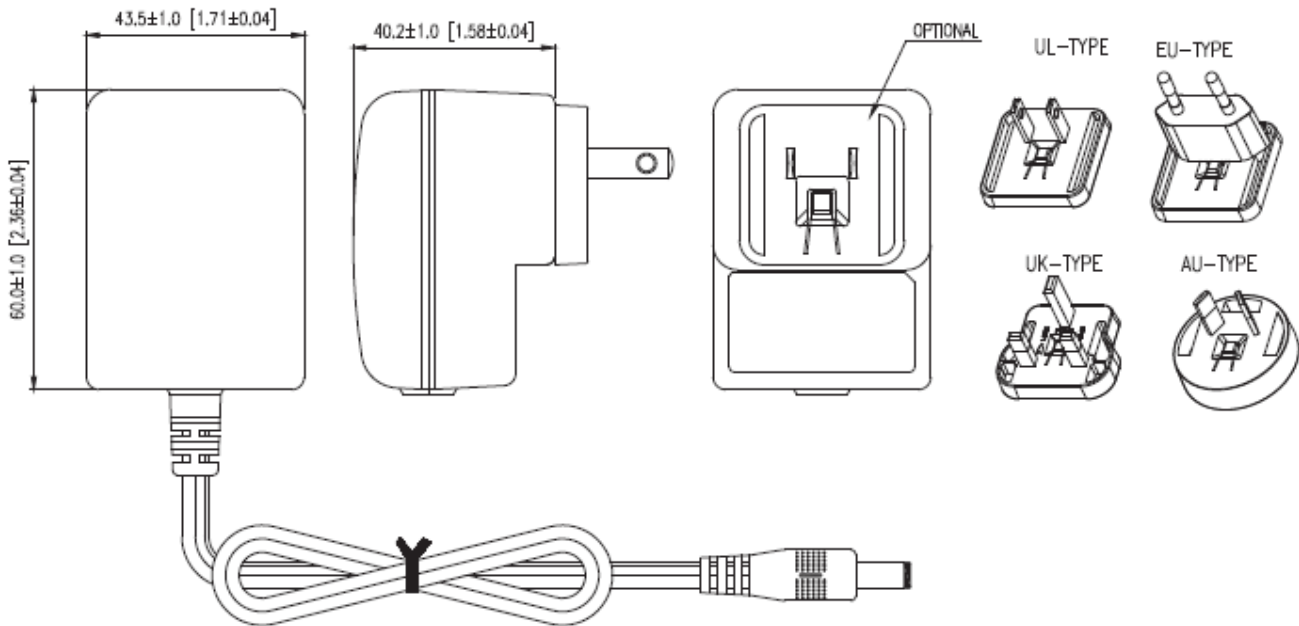
Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Safety Approvals Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Operate Voltage Range	Derate linearly from 100% load at 90VAC to 80% load at 80VAC	80		275	VAC
Input Frequency	Sine wave	47		63	Hz
Output Power Range	See Rating Chart			15	W
Low Line Input Current	Full load, Vin=100VAC			0.40	A
High Line Input Current	Full load, Vin=240VAC			0.20	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			115	A
Efficiency	Full Load, Vin=230VAC	71		84	%
Line Regulation	Full Load, Vin=100~120VAC or 200~240VAC			1	%
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=110VAC			10	ms
Start Up Time	Full Load, Vin=100~240VAC			3	s
* Ripple & Noise (Peak to Peak)			1	2	%
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

* 3~5V output model max ripple 2%.

Environmental

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	Derate linearly from 100% load at 40 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 , 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

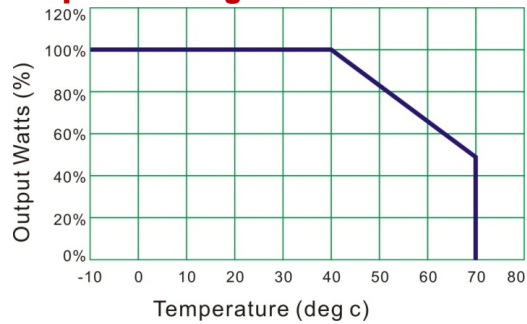
Mechanical Drawing and Technical Chart



Note:

1. Dimensions are shown in mm.
2. Weight: 165g approx.
3. Optional output connector.

Output Derating Chart:



1. Operating Temperature: -10 to 70°C
2. Derate linearly from 100% load at 40°C to 50% load at 70°C