

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.

