

Features:

- Wide Operating Voltage 90 to 264 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Over Voltage Protection (Crowbar Design)
- Optional Output Connector (See page appendix)
- Single Output
- Energy Star 2.0, Efficiency level V
- Class I
- 2 year warranty



Electrical Characteristics:

| | | | |
|-------|--|--|------------------|
| Vin | Safety Approvals Input Voltage Range | | 100~240VAC |
| | Operate Voltage Range | | 90~264VAC |
| fin | Input Frequency | | 47~63Hz |
| Po | Output Power Range | | See rating chart |
| Vo | Output Voltage Range | | See rating chart |
| Io | Output Current Range | | See rating chart |
| Iil | Input Current (Low Line) | Io=Full load, Vin=100VAC | 1.6A |
| Iih | Input Current (High Line) | Io=Full load, Vin=240VAC | 1.0A |
| Ir | Low Line Inrush Current | Io=Full load, 25°C, Cool start, Vin=115VAC | 42A (max.) |
| | High Line Inrush Current | Io=Full load, 25°C, Cool start, Vin=230VAC | 85A (max.) |
| Eff | Efficiency | Io=Full Load, Vin=230VAC | 75~90% |
| REG-i | Line Regulation | Io=Full Load | 0.5~1% |
| REG-o | Load Regulation | Vin=230VAC | 3~7% |
| OVP | Over Voltage Protection | | 112~132% |
| OCP | Over Current Protection | | 110~150% |
| Ttr | Time of Transient Response | Io=Full Load to Half Load, Vin=100VAC | 4mS (max.) |
| Th | Hold-Up Time | Io=Full Load, Vin=110VAC | 16mS (min.) |
| Ts | Start Up Time | Io=Full Load, Vin=100VAC | 2S (max.) |
| Vp-p | Ripple & Noise(Peak to Peak) | Full Load, Vin=90VAC | 1% (max.) |
| Ilk | Safety Ground Leakage Current | Vin=240VAC/60Hz | 0.75mA (max.) |
| TC | Temperature Coefficient | All output | ±0.04%/°C |
| Pno | No-Load Power Consumption | No load, Vin=230VAC | See rating chart |
| Vps | Dielectric Withstanding Voltage for Primary to secondary | Primary to secondary | 4242VDC (min.) |
| Vpg | Dielectric Withstanding Voltage for Primary to PE | Primary to PE | 2594VDC (min.) |
| Ris | Isolation Resistance | Test Voltage=500VDC | 50MΩ (min.) |

Note: The Ripple & Noise which is under 3.3VDC at 2% max

Environmental

| | | |
|------|---|--------------------|
| To | Operating Temperature | See derating curve |
| Ts | Storage Temperature | -40~85°C |
| Ho | Operating Humidity | 0~95% |
| Hr | Storage Humidity | 0~95% |
| MTBF | Operating Temperature at 25°C, Calculated per MIL-HDBK-217F | 0.1M Hrs (min.) |
| Pd | Derate linearly from 100% load at 40°C to 50% load at 70°C | |

Application:

- POS System
- AV Equipment
- Industrial PC
- Note PC
- Charger
- LED Lighting

Safety Approvals:



UL/c-UL(UL 60950-1:2nd Edition)
TUV/GS(EN 60950-1:2nd Edition)

The SPU60-108 is available on KC mark (Korea Certification).

Output Voltage And Current Rating Chart (Single Output) :

| Model Number | Output Voltage | Output Current | Total Regulation | Max. Output Power | Pno (max.) |
|--------------|----------------|----------------|------------------|-------------------|------------|
| SPU60-101 | 3 ~ 5 VDC | 6.60 ~ 4.00 A | 7% | 20W | 0.5W |
| SPU60-102 | 5 ~ 6 VDC | 6.00 ~ 5.00 A | 5% | 30W | 0.5W |
| SPU60-103 | 6 ~ 8 VDC | 5.83 ~ 4.37 A | 5% | 35W | 0.5W |
| SPU60-104 | 8 ~ 11 VDC | 5.00 ~ 3.63 A | 5% | 40W | 0.5W |
| SPU60-105 | 11 ~ 13 VDC | 4.54 ~ 3.84 A | 5% | 50W | 0.5W |
| SPU60-105-1 | 11 ~ 13 VDC | 5.45 ~ 4.61 A | 5% | 60W | 0.5W |
| SPU60-106 | 13 ~ 16 VDC | 4.23 ~ 3.43 A | 5% | 55W | 0.5W |
| SPU60-107 | 16 ~ 21 VDC | 3.75 ~ 2.85 A | 5% | 60W | 0.5W |
| SPU60-108 | 21 ~ 27 VDC | 2.85 ~ 2.22 A | 5% | 60W | 0.5W |
| SPU60-109 | 27 ~ 33 VDC | 2.22 ~ 1.81 A | 5% | 60W | 0.5W |
| SPU60-110 | 33 ~ 40 VDC | 1.81 ~ 1.50 A | 3% | 60W | 0.5W |
| SPU60-111 | 40 ~ 50 VDC | 1.50 ~ 1.20 A | 3% | 60W | 0.5W |

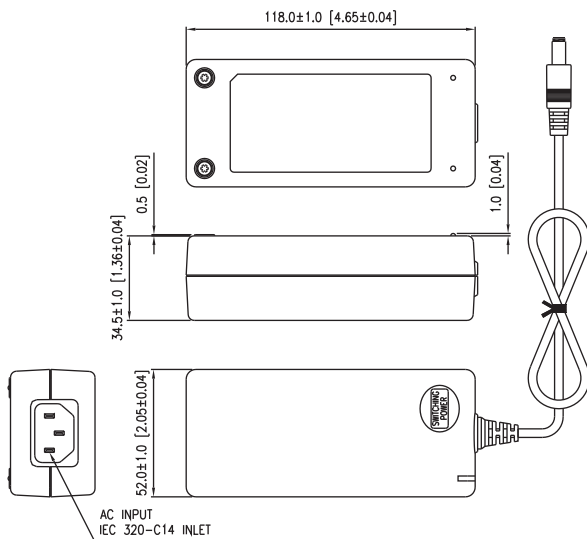
SPU60-105-1 is required to use AWG#16/4FT, UL2464 output cable.

SPU60-105, 106~107 are required to use AWG#16/4FT, UL1185 output cable.

SPU60-108~111 are required to use AWG#18/4FT, UL1185 output cable.

The electrical characteristics will be changed by modified output cable.

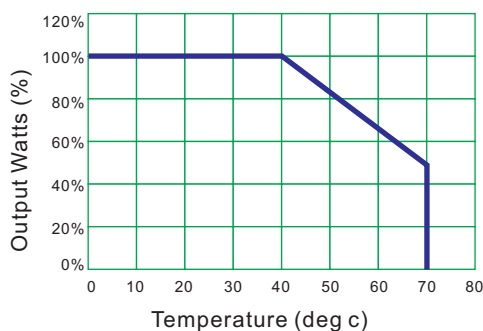
Mechanical Specifications:



Note:

1. Dimensions are shown in mm.
2. Weight: 340gs approx.
3. Optional output connector:
See page Appendix.

Derating Curve :



1. Operating Temperature: 0 to 70°C
2. Derate linearly from 100% load at 40°C to 50% load at 70°C

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