

HPU63C series

63W Desk Top Type
Medical Power Supplies

Features:

- Wide Operating Voltage 90 to 264 VAC, 47 to 63 Hz
- IEC-320-C6 Input Inlet
- Single Output
- Over Voltage and Over Load protection
- Class I
- Energy Star 2.0, Efficiency level V
- ANSI/AAMI ES 60601-1: 2005(UL/cUL 3rd Edition)
EN 60601-1:2006 (TUV/T-mark 3rd Edition)
- Input to Output : 2MOPP
- 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 | 1.62A |
| Iih | Input Current (High Line) | Io=Full load, Vin=240VAC | 0.72A |
| Ir | Low Line Inrush Current | Io=Full load, 25°C, Cool start, Vin=115VAC | 37A (max.) |
| | High Line Inrush Current | Io=Full load, 25°C, Cool start, Vin=230VAC | 74A (max.) |
| Eff | Efficiency | Io=Full Load, Vin=230VAC | 87~92% |
| REG-i | Line Regulation | Io=Full Load | 1% (max.) |
| REG-o | Load Regulation | Vin=230VAC | 5% (max.) |
| 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 | 0.3~2S |
| Vp-p | Ripple & Noise(Peak to Peak) | Full Load, Vin=90VAC | 1% (max.) |
| Ilk | Safety Ground Leakage Current | Vin=240VAC/60Hz | 0.25mA (max.) |
| TC | Temperature Coefficient | All output | ±0.04%/°C |
| OA | Operating Altitude | | Up to 3000m |
| Pno | No-Load Power Consumption | No load, Vin=230VAC | See rating chart |
| Vps | Dielectric Withstanding Voltage | Primary to secondary | 6115VDC (min.) |
| Vpg | Dielectric Withstanding Voltage for Primary to PE | Primary to PE | 2350VDC (min.) |
| Ris | Isolation Resistance | Test Voltage=500VDC | 50MΩ (min.) |

Note: The specifics for testing the energy efficiency of HPU63 Series are outlined in a separate document titled "Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies (August 11, 2004)," which is available on the ENERGY STAR Website.

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:

- Medical Touch Panel PC
- Patient Monitoring System
- Ultrasound System

Safety Approvals:

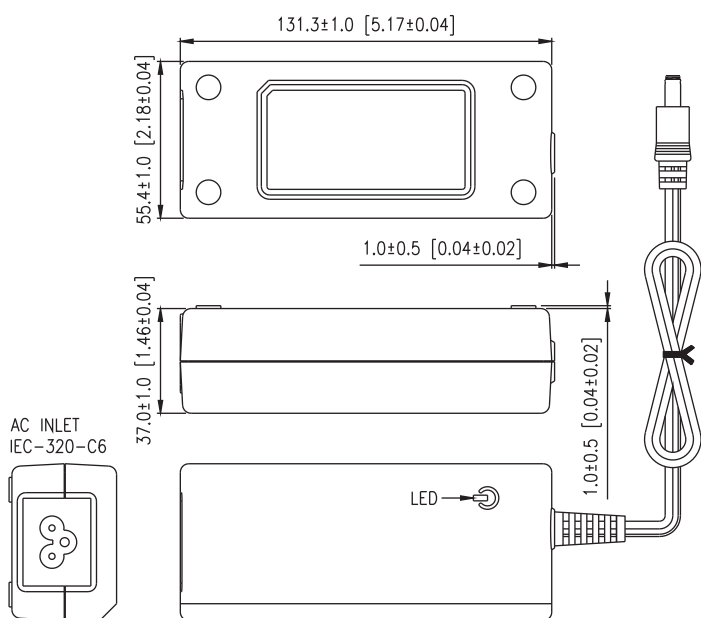


Output Voltage And Current Rating Chart (Single Output) :

| Model Number | Output Voltage | Output Current | Total Regulation | Max. Output Power | Pno (max.) |
|--------------|----------------|----------------|------------------|-------------------|------------|
| HPU63C-105 | 12 VDC | 5.25 A | 5% | 63W | 0.5W |
| HPU63C-106 | 15 VDC | 4.20 A | 5% | 63W | 0.5W |
| HPU63C-107 | 18 VDC | 3.50 A | 5% | 63W | 0.5W |
| HPU63C-108 | 24 VDC | 2.62 A | 3% | 63W | 0.5W |
| HPU63C-109 | 30 VDC | 2.10 A | 3% | 63W | 0.5W |
| HPU63C-110 | 36 VDC | 1.75 A | 3% | 63W | 0.5W |
| HPU63C-111 | 48 VDC | 1.31 A | 3% | 63W | 0.5W |

HPU63C-105~107 are required to use AWG#16/2C/4FT output cable.
HPU63C-108~110 are required to use AWG#18/2C/6FT output cable.
The regulation and efficiency will be changed by modified output cable.

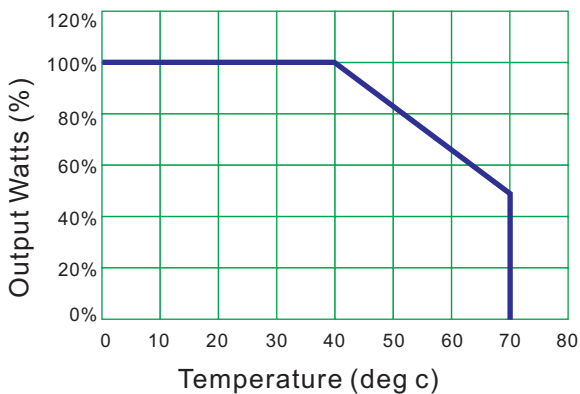
Mechanical Specifications:



Note:

1. Dimensions are shown in mm.
2. Weight: 330~380gs 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