TPHPU63A SERIES

63W Desk Top Type

Medical Power Supplies

Features:

- Wide Operating Voltage 90 to 264 VAC,47 to 63 Hz
- IEC-320-C14 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





Vin	Safety Approvals Input Voltage Range		100~240VAC	
	Operate Voltage Range		90~264VAC	
fin	Input Frequency		47~63Hz	
Ро	Output Power Range		See rating chart	
Vo	Output Voltage Range		See rating chart	
lo	Output Current Range		See rating chart	
lil	Input Current (Low Line)	lo=Full load, Vin=100VAC	1.62A	
lih	Input Current (High Line)	lo=Full load, Vin=240VAC	0.72A	
lr	Low Line Inrush Current	lo=Full load, 25°C, Cool start, Vin=115VAC	37A (max.)	
	High Line Inrush Current	lo=Full load, 25°C, Cool start, Vin=230VAC	74A (max.)	
Eff	Efficiency	lo=Full Load, Vin=230VAC	87~92%	
REG-i	Line Regulation	lo=Full Load	1% (max.)	
REG-o	Load Regulation	Vin=230VAC	5% (max.)	
OVP	Over Voltage Protection		112~132%	
ОСР	Over Current Protection		110~150%	
Ttr	Time of Transient Response	lo=Full Load to Half Load, Vin=100VAC	4mS (max.)	
Th	Hold-Up Time	lo=Full Load, Vin=110VAC 12mS (r		
Ts	Start Up Time	lo=Full Load, Vin=100VAC	0.3~2\$	
Vp- p	Ripple & Noise(Peak to Peak)	Full Load, Vin=90VAC	1% (max.)	
llk	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.)	

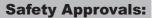
Note: The specifics for testing the energy efficiency of TPHPU63 Series are outlined in a separate document titled "Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies (August 11, 2004)," which is available on the ENERGY STAR Website.

Environmental

То	Operating Temperature	See derating curve
Ts	Storage Temperature	-40~85°C
Но	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









TPHPU63A SERIES

63W Desk Top Type

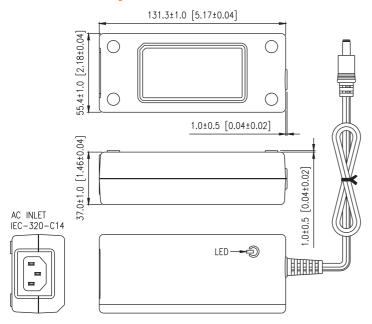
Medical Power Supplies

Output Voltage And Current Rating Chart (Single Output):

Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
TPHPU63A-105	12 VDC	5.25 A	5%	63W	0.5W
TPHPU63A-106	15 VDC	4.20 A	5%	63W	0.5W
TPHPU63A-107	18 VDC	3.50 A	5%	63W	0.5W
TPHPU63A-108	24 VDC	2.62 A	3%	63W	0.5W
TPHPU63A-109	30 VDC	2.10 A	3%	63W	0.5W
TPHPU63A-110	36 VDC	1.75 A	3%	63W	0.5W
TPHPU63A-111	48 VDC	1.31 A	3%	63W	0.5W

TPHPU63A-105~107 are required to use AWG#16/2C/4FT output cable.

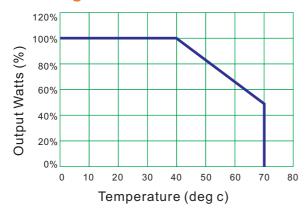
Mechanical Specifications:



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

TPHPU63A-108~110 are required to use AWG#18/2C/6FT output cable.

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