

# TPMPU130 SERIES

130W Desk Top Type  
Medical Power Supplies

## Features:

- Wide Operating Voltage 90 to 260 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Single Output
- Optional Output Connector (See page appendix)
- Over Voltage and Over Load protection
- Output Voltage Protection (Crowbar Design)
- Ultra-low leakage current (under 0.1mA)
- ON/OFF SWITCH (Optional)
- Class I
- Energy Star 2.0, Efficiency level V
- 3 year warranty



## Electrical Characteristics:

Vin	Safety Approvals		100~240VAC
	Input Voltage Range		90~260VAC
fin	Input Frequency		47~63Hz
Po	Output Power Range		See rating chart
PF	Power Factor Correction	Io=Full load, Vin=230 VAC	0.95~1%
Vo	Output Voltage Range		See rating chart
Io	Output Current Range		See rating chart
Iil	Input Current (Low Line)	Io=Full load, Vin=100VAC	1.58A
Iih	Input Current (High Line)	Io=Full load, Vin=240VAC	0.64A
Ir	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC	30A (max.)
	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC	50A (max.)
Eff	Efficiency	Io=Full Load, Vin=230VAC	87~89%
REG-i	Line Regulation	Io=Full Load	0.5~1%
REG-o	Load Regulation	Vin=230VAC	3~5%
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	0.1mA (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	6301VDC (min.)
Vpg	Dielectric Withstanding Voltage for Primary to PE	Primary to PE	2121VDC (min.)
Ris	Isolation Resistance	Test Voltage=500VDC	50MΩ (min.)

## 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:



# TPMPU130 SERIES

130W Desk Top Type  
Medical Power Supplies

## Output Voltage And Current Rating Chart ( Single Output ) :

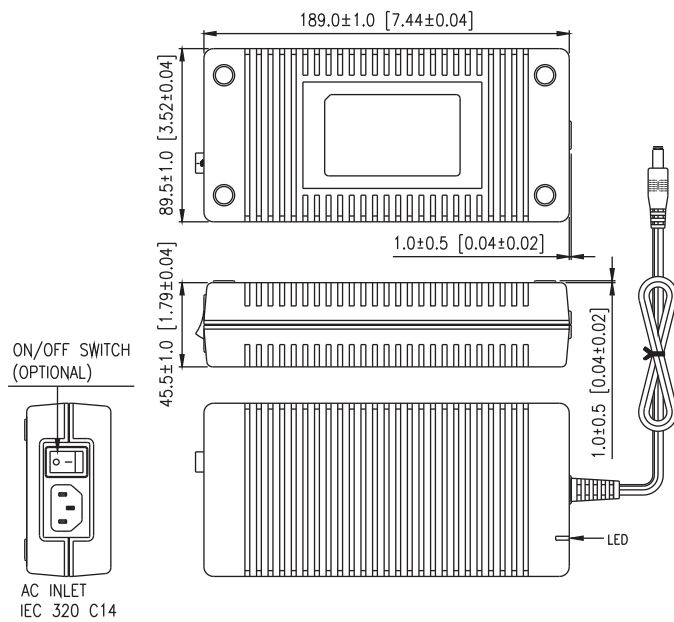
Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
TPMPU130-105	12 VDC	10.84 A	5%	130W	0.5W
TPMPU130-108	24 VDC	5.42 A	3%	130W	0.5W

NOTE: TPMPU130-105 is required to use AWG#16\* 5C / 4FT output cable.

TPMPU130-108 is required to use AWG#18\* 4C / 4FT output cable.

The regulation and efficiency will change if a modified output cable is requested.

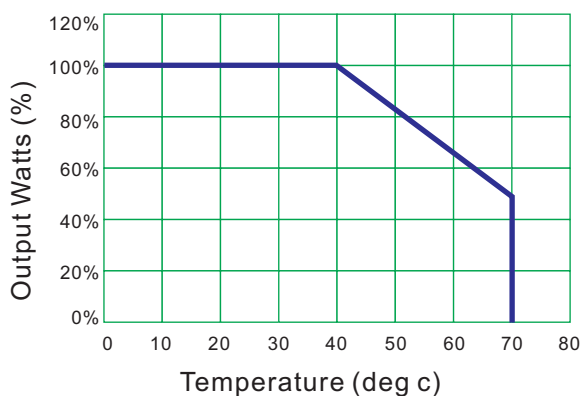
## Mechanical Specifications:



Note:

1. Dimensions are shown in mm.
2. Weight: 778~800gs 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

