

# TPSPU60 SERIES

60W Desk Top Type  
I.T.E. Power Supplies

## 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		100~240VAC
	Input 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
		Io=Full load, Vin=240VAC	1.0A
Iir	Input Current (High Line)	Io=Full load, 25°C, Cool start, Vin=115VAC	42A (max.)
		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 TPSPU60-108 is available with KC mark (Korea Certification).



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

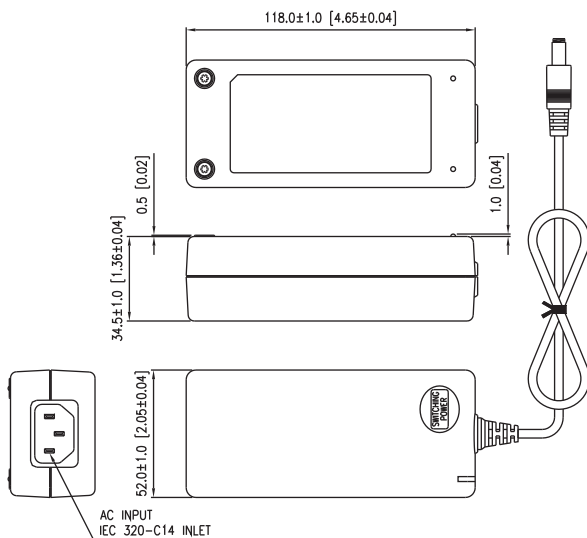
Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
TPSPU60-101	3 ~ 5 VDC	6.60 ~ 4.00 A	7%	20W	0.5W
TPSPU60-102	5 ~ 6 VDC	6.00 ~ 5.00 A	5%	30W	0.5W
TPSPU60-103	6 ~ 8 VDC	5.83 ~ 4.37 A	5%	35W	0.5W
TPSPU60-104	8 ~ 11 VDC	5.00 ~ 3.63 A	5%	40W	0.5W
TPSPU60-105	11 ~ 13 VDC	4.54 ~ 3.84 A	5%	50W	0.5W
TPSPU60-105-1	11 ~ 13 VDC	5.45 ~ 4.61 A	5%	60W	0.5W
TPSPU60-106	13 ~ 16 VDC	4.23 ~ 3.43 A	5%	55W	0.5W
TPSPU60-107	16 ~ 21 VDC	3.75 ~ 2.85 A	5%	60W	0.5W
TPSPU60-108	21 ~ 27 VDC	2.85 ~ 2.22 A	5%	60W	0.5W
TPSPU60-109	27 ~ 33 VDC	2.22 ~ 1.81 A	5%	60W	0.5W
TPSPU60-110	33 ~ 40 VDC	1.81 ~ 1.50 A	3%	60W	0.5W
TPSPU60-111	40 ~ 50 VDC	1.50 ~ 1.20 A	3%	60W	0.5W

TPSPU60-105-1 is required to use AWG#16/4FT,UL2464 output cable.

TPSPU60-105,106~107 are required to use AWG#16/4FT,UL1185 output cable.

TPSPU60-108~111 are required to use AWG#18/4FT,UL1185 output cable.

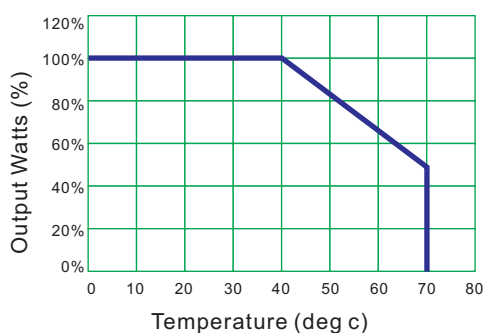
## Mechanical Specifications:



### 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

