



TPSPU100 SERIES

100W Desk Top Type
I.T.E. Power Supplies

Features:

- Wide Operating Voltage 90 to 260 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Over Voltage Protection
- Active Power Factor Correction
- 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	90~260VAC
fin	Input Frequency	47~63Hz
PF	Power Factor Correction	Io=Full load, Vin=240VAC
Po	Output Power Range	See rating chart
Vo	Output Voltage Range	See rating chart
Io	Output Current Range	See rating chart
IlL	Input Current (Low Line)	Io=Full load, Vin=100VAC
IlH	Input Current (High Line)	Io=Full load, Vin=240VAC
Ir	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC
	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC
Eff	Efficiency	Io=Full Load, Vin=230VAC
REG-i	Line Regulation	Io=Full Load
REG-o	Load Regulation	Vin=230VAC
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
Th	Hold-Up Time	Io=Full Load, Vin=110VAC
Ts	Start Up Time	Io=Full Load, Vin=100VAC
Vp-p	Ripple & Noise(Peak to Peak)	Full Load, Vin=90VAC
Ilk	Safety Ground Leakage Current	Vin=240VAC/60Hz
TC	Temperature Coefficient	All output
Pno	No-Load Power Consumption	No load, Vin=230VAC
Vps	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary
Vpg	Dielectric Withstanding Voltage for Primary to PE	Primary to PE
Ris	Isolation Resistance	Test Voltage=500VDC

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:

- Printer
- Industrial PC
- Power Tools
- DC Motor
- AV Equipment
- LED Lighting

Safety Approvals:



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

The TPSPU100-108 is available on KC mark (Korea Certification).



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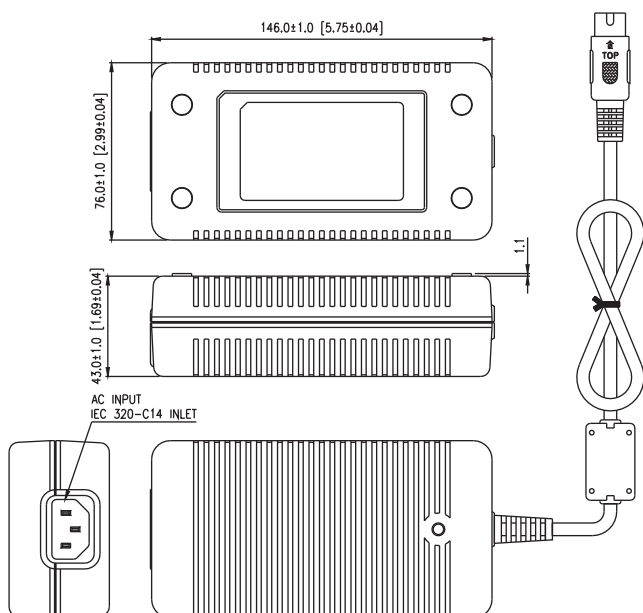
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Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
TPSPU100-105	11 ~ 13 VDC	9.09~7.69 A	5%	100W	0.5W
TPSPU100-106	13 ~ 16 VDC	7.69~6.25 A	4%	100W	0.5W
TPSPU100-107	16 ~ 21 VDC	6.25~4.76 A	4%	100W	0.5W
TPSPU100-108	21 ~ 27 VDC	4.76~3.70 A	4%	100W	0.5W
TPSPU100-109	27 ~ 33 VDC	3.70~3.03 A	3%	100W	0.5W
TPSPU100-110	33 ~ 40 VDC	3.03~2.50 A	3%	100W	0.5W
TPSPU100-111	40 ~ 48 VDC	2.50~2.08 A	3%	100W	0.5W

This series is required to use AWG#18×3C+ AWG#16×3C/4FT output cable.
The regulation will be changed by modified output cable.

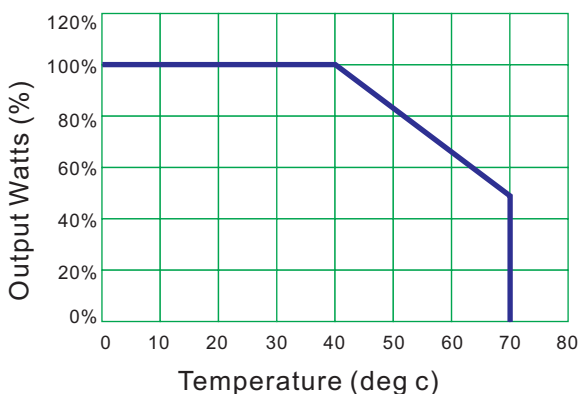
Mechanical Specifications:



Note:

1. Dimensions are shown in mm.
2. Weight: 490~670gs 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

