TPSPU41A SERIES

40W 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
- Optional Output Connector (See page appendix)
- Single Output
- Class I
- Energy Star 2.0, Efficiency level V
- 2 year warranty



Electrical Characteristics:

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)	nt (Low Line) lo=Full load, Vin=100VAC		
lih	Input Current (High Line)	lo=Full load, Vin=240VAC	0.93A	
lr	Low Line Inrush Current	lo=Full load, 25°C, Cool start, Vin=115VAC	45A (max.)	
	High Line Inrush Current	lo=Full load, 25°C, Cool start, Vin=230VAC	90A (max.)	
Eff	Efficiency	ciency lo=Full Load, Vin=230VAC		
REG-i	ine Regulation Io=Full Load		0.5~1%	
REG-o	Load Regulation Vin=230VAC		4~5%	
OCP	Over Current Protection	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		10mS (min.)	
Ts	Start Up Time	lo=Full Load, Vin=100VAC	2S (max.)	
Vp-p	Ripple & Noise(Peak to Peak)	Full Load, Vin=90VAC	2% (max.)	
llk	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		2550VDC (min.)	
Ris	Isolation Resistance	Test Voltage=500VDC	50M Ω (min.)	

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)

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	

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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.)
TPSPU41A-102	5 ~ 5.99 VDC	5.00 A	5%	30W	0.3W
TPSPU41A-103	6.5 ~ 8 VDC	5.00 ~ 3.75 A	5%	30W	0.3W
TPSPU41A-104	8 ~ 11 VDC	4.375 ~ 3.18 A	5%	35W	0.3W
TPSPU41A-105	11 ~ 13 VDC	3.64 ~ 3.07 A	5%	40W	0.3W
TPSPU41A-106	13 ~ 16 VDC	3.07 ~ 2.50 A	5%	40W	0.3W
TPSPU41A-107	16 ~ 21 VDC	2.50 ~ 1.90 A	5%	40W	0.3W
TPSPU41A-108	21 ~ 27 VDC	1.90 ~ 1.48 A	3%	40W	0.3W
TPSPU41A-109	27 ~ 33 VDC	1.48 ~ 1.21 A	3%	40W	0.3W
TPSPU41A-110	33 ~ 40 VDC	1.21 ~ 1.00 A	2%	40W	0.3W
TPSPU41A-111	40 ~ 48 VDC	1.00 ~ 0.83 A	2%	40W	0.3W

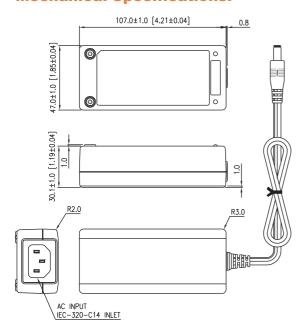
TPSPU41A-102~104 are required to use AWG#16 / 4FT output cable.

TPSPU41A-105~107 are required to use AWG#18 / 4FT output cable.

TPSPU41A-108~111 are required to use AWG#18 / 6FT output cable

The regulation will be changed by modified output cable

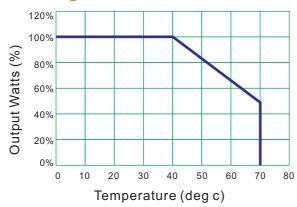
Mechanical Specifications:



Note:

- Dimensions are shown in mm.
 Weight: 265~280gs 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

