Total Power International, Inc.

TPSPU16D SERIES

15W Desk Top Type
I.T.E. Power Supplies

Features:

- Wide Operating Voltage 90 to 264 VAC,47 to 63 Hz
- A Stand And Mains AC Power Cord
- Optional Output Connector (See page appendix)
- Single Output
- Class II
- 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
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	0.4A
Iih	Input Current (High Line)	Io=Full load, Vin=240VAC	0.26A
Ir	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC	15A (max.)
	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC	30A (max.)
Eff	Efficiency	Io=Full Load, Vin=230VAC	72~85%
REG-i	Line Regulation	Io=Full Load	0.5~1%
REG-o	Load Regulation	Vin=230VAC	3~7%
OVP	Over Voltage Protection		Nil
OCP	Over Current Protection	Nil.But,Output protected to short circuit conditions	
Ttr	Time of Transient Response	Io=Full Load to Half Load, Vin=100VAC	4mS (max.)
Th	Hold-Up Time	Io=Full Load, Vin=110VAC	8mS (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	Leakage Current	Vin=240VAC/60Hz	0.25mA (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.)
Ris	Isolation Resistance	Test Voltage=500VDC	50MΩ (min.)

Note: The Ripple & Noise which is under 3.3VCD 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:

- Ethernet Hub
- Portable Devices
- Charger
- Monitor
- Set-top Box
- AV Equipment

Safety Approvals:

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

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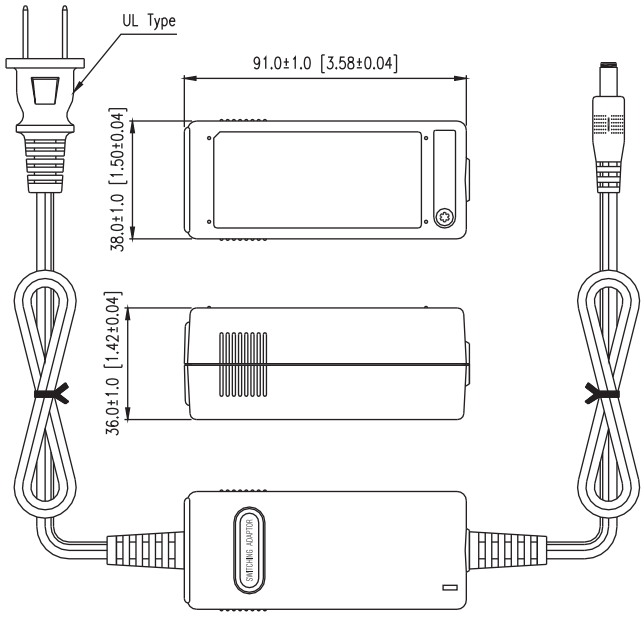
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Output Voltage And Current Rating Chart (Single Output) :

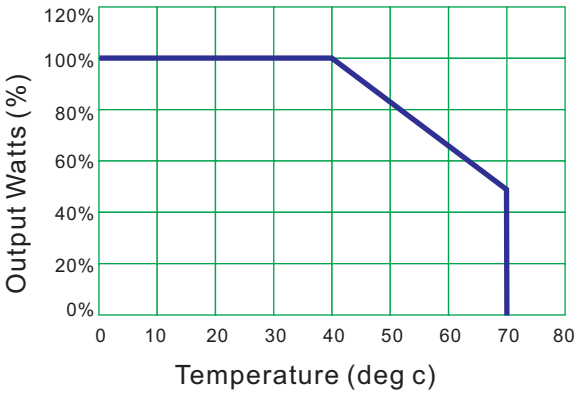
Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
TPSPU16D-101	3 ~ 5 VDC	2.50 A max	7%	12W	0.3W
TPSPU16D-102	5 ~ 5.99 VDC	2.50 ~ 2.00 A	5%	12W	0.3W
TPSPU16D-103	6 ~ 8 VDC	2.00 ~ 1.50 A	5%	12W	0.3W
TPSPU16D-104	8 ~ 11 VDC	1.87 ~ 1.36 A	5%	15W	0.3W
TPSPU16D-105	11 ~ 13 VDC	1.36 ~ 1.15 A	5%	15W	0.3W
TPSPU16D-106	13 ~ 16 VDC	1.15 ~ 0.94 A	5%	15W	0.3W
TPSPU16D-107	16 ~ 21 VDC	0.94 ~ 0.72 A	5%	15W	0.3W
TPSPU16D-108	21 ~ 27 VDC	0.72 ~ 0.55 A	5%	15W	0.3W
TPSPU16D-109	27 ~ 33 VDC	0.55 ~ 0.45 A	5%	15W	0.3W
TPSPU16D-110	33 ~ 40 VDC	0.45 ~ 0.37 A	3%	15W	0.3W
TPSPU16D-111	40 ~ 48 VDC	0.37 ~ 0.31 A	3%	15W	0.3W

Mechanical Specifications:



Note:
1. Dimensions are shown in mm.
2. Weight: 165gs approx.
   (Unincluded an input cord)
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