Total Power International, Inc.

TPSPU150 SERIES

150W 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
- Active Power Factor Correction
- Single Output
- ON/OFF SWITCH (Optional)
- Output Voltage Protection (Crowbar Design)
- 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	0.95~1
Po	Output Power Range		See rating chart
Vo	Output Voltage Range		24V
Io	Output Current Range		6.25V
Iil	Input Current (Low Line)	Io=Full load, Vin=100VAC	1.89A
Iih	Input Current (High Line)	Io=Full load, Vin=240VAC	0.65A
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	5% (typ.)
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	20mS (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	2799VDC (min.)
Ris	Isolation Resistance	Io=Full load, Vin=230VAC	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:

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

Safety Approvals:

RoHS 2002/95/EC COMPLIANT

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

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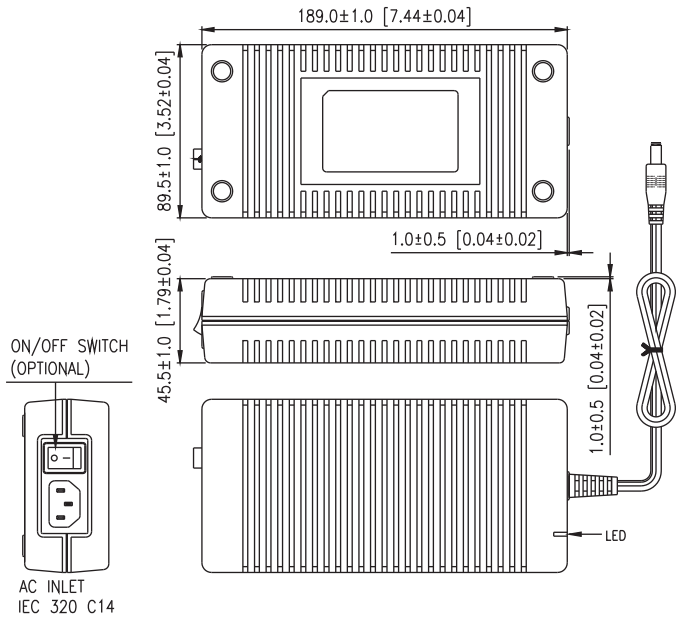
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Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
TPSPU150-108	24 VDC	6.25 A	3%	150W	0.5W

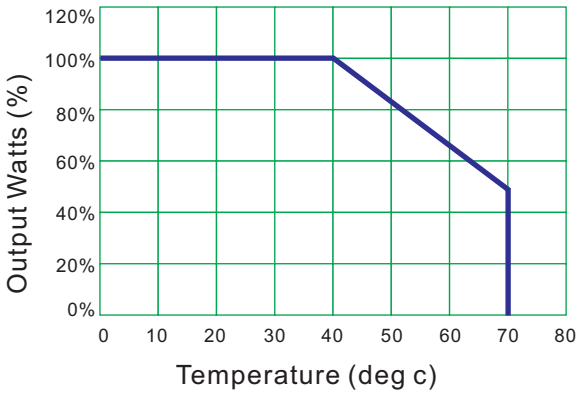
This series is required use AWG#16*2C/4FT output cable.

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