

TPSPU131 Series

130W Desk Top Switching Power Supplies For I.T.E.

Description:

The 131 series of AC/DC switching mode power supplies provide 130 Watts of continuous output power. All supplies are UL94V-1 min compliant, include IEC-320-C14 input for worldwide applications. They are suited for use in hospital instrument and many other applications. All models meet FCC Part-15 class B and CISPR-22 EN55011 class B emission Limits and are designed to comply with UL/c-UL(UL 60950-1), TUV/T-mark (EN 60950-1) and new CE requirements. All units are 100% burned in and tested.



Features:

- Wide Input Voltage 90 to 260 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Single Output
- Optional Output Connector (See appendix)
- Input Surge Current, Over Voltage And Over Load protection
- Output Voltage Protection
- Power Factor Correction
- Class I
- ON/OFF SWITCH (Optional)
- 2 year warranty

Safety Approvals :



Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Input Voltage	Operating Voltage	90		260	VAC
fin	Input Frequency		47		63	Hz
PF	Power Factor Correction	Io=Full load, Vin=230 VAC	0.95		1	
Po	Output Power Range	Vin=90 to 260 VAC	0		130	W
Vo	Output Voltage Range		See rating chart			V
Io	Output Current Range		See rating chart			A
Iil	Input Current (Low Line)	Io=Full load, Vin=115 VAC			1.32	A
Iih	Input Current (High Line)	Io=Full load, Vin=230 VAC			0.66	A
Irl	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC			30	A
Irh	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC			50	A
Eff	Efficiency	Io=Full Load, Vin=230VAC		88		%
REG-i	Line Regulation	Io=Full Load		0.5	1	%
REG-o	Load Regulation	Vin=230VAC		5		%
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			4	mS
Thold	Hold-Up Time	Io=Full Load, Vin=110VAC	16			mS
Ts	Start Up Time	Io=Full Load, Vin=100VAC			2	S
Vrn	Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC			1	%
Ilk	Safety Ground Leakage Current	Io= Full Load, Vin=240 VAC/60Hz			0.75	mA
TC	Temperature Coefficient	All output	-0.04		0.04	%/°C

Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Toper	Operating Temperature		0	40	70	°C
Tstg	Storage Temperature		-40		85	°C
Hr	Relative Humidity		5		95	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1			MHrs
Pd	Derate linearly from 100% load at 40°C to 50% load at 70°C					

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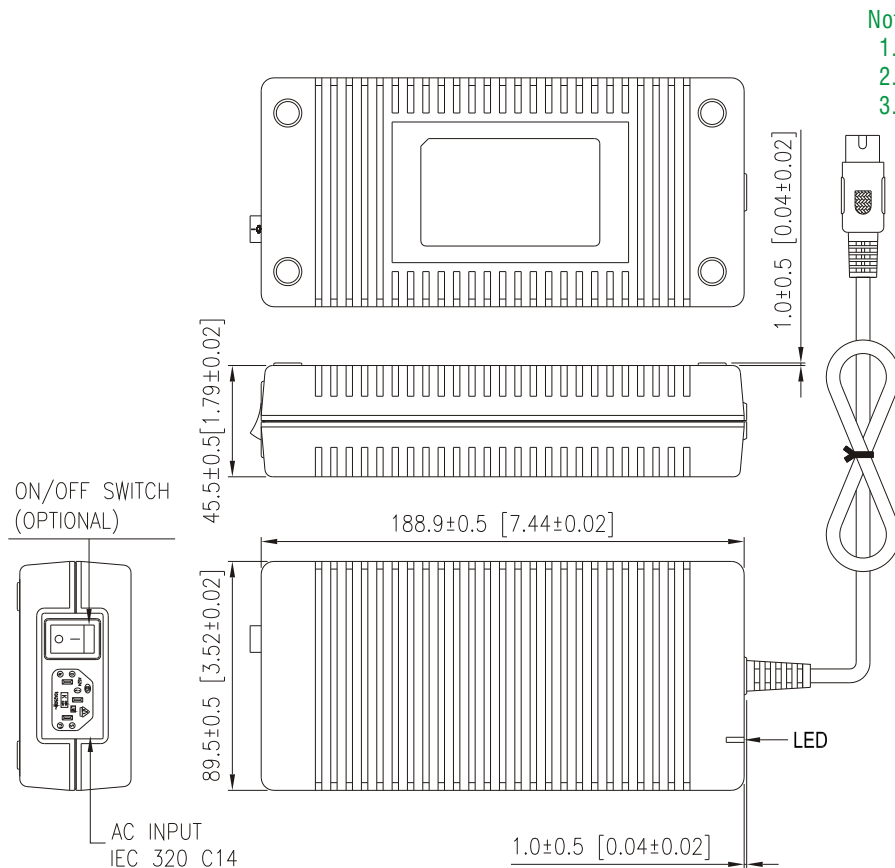
Safety Specifications:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V _{ps}	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242			VDC
V _{pg}	Dielectric Withstanding Voltage for Primary to secondary	Primary to ground	2121			VDC
R _{is}	Isolation Resistance	I _o =Full load, V _{in} =230VAC	50			MΩ
CISPR	EMI requirements for CISPR-22	V _{in} =220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	V _{in} =110VAC	B			CLASS

Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
TPSPU131-105	12 VDC	10.84 A	5%	130W
TPSPU131-108	24 VDC	5.42A	3%	130W

Mechanical Specifications:



Note:

1. Dimensions are shown in inches or mm.
2. Weight: 778-800gs approx.
3. Optional output connector: See page Appendix.