

# TPIPU16D SERIES

## 15W Desk Top Switching Power Supplies For Industrial Equipment

### Description:

The 16D series of AC/DC switching mode power supplies provide 15 Watts of continuous output power. All supplies are UL 94V-1 min compliant, include a AC power cord input for worldwide applications. All models meet FCC Part-15 class B and CISPR-22 class B emission Limits and are designed to comply with UL/c-UL(UL 60950-1), TUV/GS (EN 60950-1) and new CE requirements. All units are 100% burned in and tested.



### Features:

- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- A Stand And Mains AC Power Cord
- Optional Output Connector (See appendix)
- Single Output
- Splash proof
- Class II
- Operating temperature -20~70°C
- 2 year warranty

### Safety Approvals:



### Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Input Voltage	Operating Voltage	90		264	VAC
fin	Input Frequency		47		63	Hz
Po	Output Power Range	Vin=90 to 264VAC	0		15	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=115VAC			0.4	A
Iih	Input Current (High Line)	Io=Full load, Vin=230VAC			0.26	A
Irl	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		12	15	A
Irh	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC		26	30	A
Eff	Efficiency	Io=Full Load, Vin=230VAC	72	75	85	%
REG-i	Line Regulation	Io=Full Load		0.5	1	%
REG-o	Load Regulation	Vin=230VAC		3	10	%
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			4	mS
Thold	Hold-Up Time	Io=Full Load, Vin=110VAC	5			mS
Ts	Start Up Time	Io=Full Load, Vin=100VAC	0.3	1	2	S
Vrn	Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC		0.5	1	%
Ilk	Safety Ground Leakage Current	Io=Full Load, Vin=240VAC		0.5	0.75	mA
TC	Temperature Coefficient	All output	-0.04		0.04	%/°C

\* Note: The Ripple & Noise which is under 3.3VDC at 2% max

### Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Toper	Operating Temperature		-20		70	°C
Tstg	Storage Temperature		-40		85	°C
Hr	Relative Humidity		5		95	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1M			Hrs
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
Vps	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242			VDC
Ris	Isolation Resistance	Test Voltage=500VDC	50			MΩ
CISPR	EMI requirements for CISPR-22	Vin=220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	Vin=110VAC	B			CLASS

### Output Voltage And Current Rating Chart ( Single Output ) :

Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
TPIPU16D-101	3 ~ 5 VDC	2.50 A max	7%	12W
TPIPU16D-102	5 ~ 6 VDC	2.50 ~ 2.00 A	5%	12W
TPIPU16D-103	6 ~ 8 VDC	2.00 ~ 1.50 A	5%	12W
* TPIPU16D-104	8 ~ 11 VDC	1.87 ~ 1.36 A	5%	15W
* TPIPU16D-105	11 ~ 13 VDC	1.36 ~ 1.15 A	5%	15W
* TPIPU16D-106	13 ~ 16 VDC	1.15 ~ 0.94 A	5%	15W
* TPIPU16D-107	16 ~ 21 VDC	0.94 ~ 0.72 A	5%	15W
* TPIPU16D-108	21 ~ 27 VDC	0.72 ~ 0.55 A	5%	15W
* TPIPU16D-109	27 ~ 33 VDC	0.55 ~ 0.45 A	5%	15W
* TPIPU16D-110	33 ~ 40 VDC	0.45 ~ 0.37 A	3%	15W
* TPIPU16D-111	40 ~ 48 VDC	0.37 ~ 0.31 A	3%	15W

Mark " \* " means approved by CEC level V.

The output voltage under 30V had been approved by TUV/PSE.

### Mechanical Specifications :

Note:

1. Dimensions are shown in mm.
2. Weight: 165gs approx.  
(Unincluded an input cord)
3. Optional output connector:  
See Page Appendix.

