

SPU 16A SERIES

15W Desk Top Switching Power Supplies For I.T.E.

Description:

The SPU16A series of AC/DC switching mode power supplies provide 15 Watts of continuous output power and is well-suited for a variety of applications. All supplies are UL 94V-1 min compliant. All model meet FCC Part-15 class B and CISPR-22 class B emission Limits and are designed to comply with UL/c-UL(UL 60950-1:2nd Edition), TUV/GS(EN 60950-1:2nd Edition) and new CE requirements. All units are 100% burned-in and tested.

Features:

- Wide Operating Voltage 90 to 264VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Optional Output Connector (See appendix)
- Single Output
- Energy Star 2.0, Efficiency level V
- Class I
- 2 year warranty



Safety Approvals:



Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Safety Approvals Input Voltage Range		100		240	VAC
	Operate Voltage Range		90		264	VAC
fin	Input Frequency		47		63	Hz
Po	Output Power Range	Vin=90 to 264VAC			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		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	8			ms
Ts	Start Up Time	Io=Full Load, Vin=100VAC	0.3	1	2	S
* Vp-p	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
Pno	No-Load Power Consumption	No load, Vin=240VAC	0	0.4	0.5	W

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

Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Toper	Operating Temperature		0	40	70	°C
Tstg	Storage Temperature		-40		85	°C
Ho	Operating Humidity		0		95	%
Hr	Storage Humidity		0		75	%
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					

Stontronics Ltd

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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 Ground	Primary to ground	2121			VDC
R _{is}	Isolation Resistance	Test Voltage=500VDC	50			M Ω
CISPR	EMI requirements for CISPR-22	Vin=220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	Vin=110VAC	B			CLASS

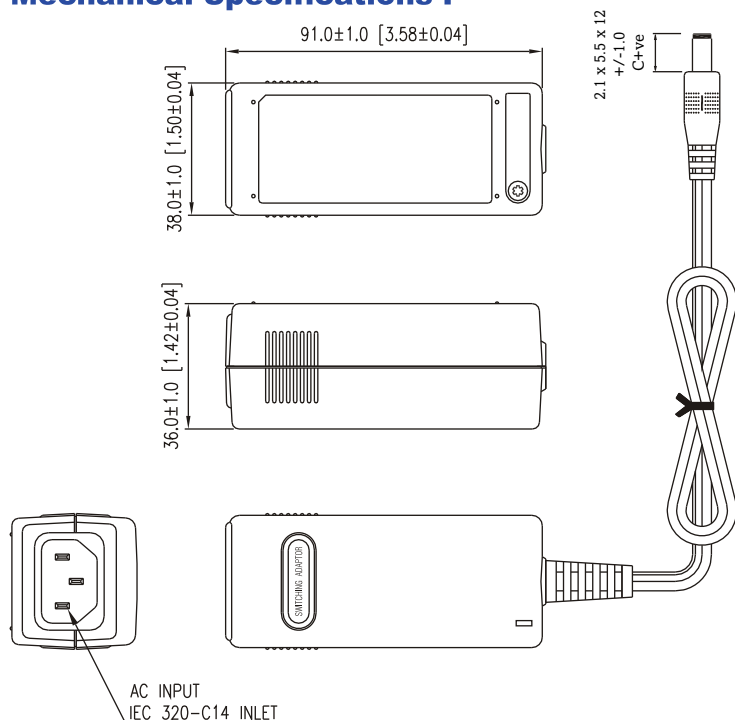
Output Voltage And Current Rating Chart (Single Output) :

Part Number	Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
T3526ST	SPU16A-101	3.3 VDC	2.50 A max	7 %	12W
T3169ST	SPU16A-102	5 VDC	2.50A	5 %	12W
T3170ST	SPU16A-103	6 VDC	2.00A	5 %	12W
T3171ST	SPU16A-103	7.5 VDC	1.60A	5 %	12W
T3172ST	SPU16A-104	9 VDC	1.60 A	5 %	15W
T3173ST	SPU16A-105	12 VDC	1.25 A	5 %	15W
T3527ST	SPU16A-106	13.5 VDC	1.10 A	5 %	15W
T3174ST	SPU16A-106	15 VDC	1.00 A	5 %	15W
T3175ST	SPU16A-107	18 VDC	0.80 A	5 %	15W
T3176ST	SPU16A-108	24 VDC	0.60 A	5 %	15W
T3529ST	SPU16A-109	30 VDC	0.50 A	5 %	15W
On Request	SPU16A-110	33 ~ 40 VDC	0.45 ~ 0.37 A	3 %	15W
T3530ST	SPU16A-111	48 VDC	0.31 A	3 %	15W

SPU16A-101 had been approved by CEC level IV.

SPU16A-102~111 had been approved by CEC level V.

Mechanical Specifications :



Note:

1. Dimensions are shown in mm.
2. Weight: 165gs approx.
3. Optional output connector:
See page Appendix.

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