

# SPU80 SERIES

## 80W Desk Top Switching Power

### Supplies For I.T.E. Description:

The SPU80 series of AC/DC switching mode power supplies provide 80 W atts of continuous output power. All supplies are UL 94V -1 min compliant, include IEC -320-C14 input for worldwide applications. All models meet FCC P art-15 class and CISPR -22 class B emission Limits and are designed to comply with UL/c-UL(UL 60950-1), TU V/GS(EN 60950-1) an new CE requirements. All units are 100% burned in and test



### Features:

- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
  - IEC-320-C14 Inlet
- Single Output
- Output Voltage Available From 11 VDC Thru 48VDC Optional Output
- Connector (See appendix)
- Input Surge Current, Over Voltage And Over Load protection Power Factor Correction
- Output Voltage Protection (Crowbar Design)
- Splash proof
  - Class I Insulation
- 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
PFC	Power Factor Correction	Io=Full load, Vin=90~260VAC	0.95	0.97	1.0	
Wo	Output Power Range	Vin=90 to 264 VAC	0		80	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			1.07	A
Iih	Input Current (High Line)	Io=Full load, Vin=230VAC			0.5	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	80		83.87	%
REG-i	Line Regulation	Io=Full load		0.5	1	%
REG-o	Load Regulation	Vin=230VAC		3	7	%
OVP	Over Voltage Protection		112		132	%
OCP	Over Current Protection		110		150	%
Ttr	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	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

### Environmental

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Toper	Operating Temperature		0		70	C
Tstg	Storage Temperature		-40		85	C
Hr	Relative Humidity		5		95	%
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
Vpg	Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2121			VDC
Ri	Isolation Resistance	Test Voltage=500VDC	50			M
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	Out Voltage	Out Current	Total Regulation	Maximum Out Power
SPU80-105	11 ~ 13 VDC	7.27 ~ 6.15 A	5%	80W
SPU80-106	13 ~ 16 VDC	6.15 ~ 5.00 A	5%	80W
SPU80-107	16 ~ 21 VDC	5.00 ~ 3.80 A	4%	80W
SPU80-108	21 ~ 27 VDC	3.80 ~ 2.96 A	3%	80W
SPU80-109	27 ~ 33 VDC	2.96 ~ 2.42 A	2%	80W
SPU80-110	33 ~ 40 VDC	2.42 ~ 2.00 A	2%	80W
SPU80-111	40 ~ 48 VDC	2.00 ~ 1.66 A	2%	80W

Mark "~" means "PSE approval"

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

### Mechanical Specifications:

Note:

1. Dimensions are shown in inches or m m.
2. Weight: 600-700gs approx.
3. Optional output connector:  
See page Appendix.

