

SPU60 SERIES

60W Desk Top Switching Power Supplies For I.T.E. (Small Size)

Description:

The SPU60 series of AC/DC switching mode power supplies provide 60 Watts of continuous output power. All supplies are UL 94V-1 min compliant, include IEC-320-C14 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 1950), ITS/GS(EN 60950) and new CE requirements. All units are 100% burned in and tested.



Features:

- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Single output
- Output Voltage Available From 3 VDC Thru 50 VDC
- Optional Output Connector (See appendix)
- Input Surge Current, Over Voltage and Over Load protection
- Splash proof
- Class I Insulation
- Two Years 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
Wo	Output Power Range	Vin=90 to 264VAC	0		60	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			1.6	A
Iih	Input Current (High Line)	Io=Full load, Vin=230VAC			1.0	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	70	83	88	%
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
Vrn	Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC		1	2	%
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					

SPU60 SERIES

60W Desk Top Switching Power Supplies For I.T.E. (Small Size)

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 _i	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) :

Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SPU60-101	3 ~ 5 VDC	6.60 ~ 4.00 A	7%	20W
SPU60-102	5 ~ 6 VDC	6.00 ~ 5.00 A	5%	30W
SPU60-103	6 ~ 8 VDC	5.83 ~ 4.37 A	5%	35W
SPU60-104	8 ~ 11 VDC	5.00 ~ 3.63 A	5%	40W
SPU60-105	11 ~ 13 VDC	4.54 ~ 3.84 A	5%	50W
☆ SPU60-105-1	11 ~ 13 VDC	5.45 ~ 4.61 A	5%	60W
SPU60-106	13 ~ 16 VDC	4.23 ~ 3.43 A	5%	55W
SPU60-107	16 ~ 21 VDC	3.75 ~ 2.85 A	5%	60W
SPU60-108	21 ~ 27 VDC	2.85 ~ 2.22 A	5%	60W
SPU60-109	27 ~ 33 VDC	2.22 ~ 1.81 A	5%	60W
SPU60-110	33 ~ 40 VDC	1.81 ~ 1.50 A	3%	60W
SPU60-111	40 ~ 50 VDC	1.50 ~ 1.20 A	3%	60W

☆ MODEL SPU60-105-1 have only approved UL/c-UL,ITS/GS,CE

Note:

1. Dimensions are shown in mm.
2. Weight: 340gs approx.
3. Optional output connector: See page Appendix.

Mechanical Specifications :

