

SPU40 SERIES

40W Desk Top Switching Power Supplies For I.T.E.

Description:

The SPU40 series of AC/DC switching mode power supplies provide 40 Watts of continuous output power and is well-suited for a variety of applications. All supplies are UL 94V-1 min compliant. 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
- IEC-320-C14 Input Inlet
- Single output
- Optional Output Connector (See appendix)
- Over Voltage Protection (Crowbar Design)
- Splash proof
- Class I Insulation
- CEC and Energy Star compliance
- Approved as Limited Power Source (LPS).
- 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
Wo	Output Power Range	Vin=90 to 264VAC	0		40	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	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	78	83	90	%
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		0.5	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
Pnlc	Power Consumption (No load)	No load, Vin=240VAC		0.3	0.5	W

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	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1			M 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
Vpg	Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2121			VDC
Ri	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 ^①	Maximum Output Power
SPU40-102	5 ~ 6 VDC	5.00 ~ 4.16 A	5%	25W
SPU40-104	8 ~ 11 VDC	4.37 ~ 3.18 A	4%	35W
SPU40-105	11 ~ 13 VDC	3.63 ~ 3.07 A	3%	40W
SPU40-107	16 ~ 21 VDC	2.50 ~ 1.90 A	3%	40W
SPU40-108	21 ~ 27 VDC	1.90 ~ 1.48 A	2%	40W
SPU40-111	40 ~ 50 VDC	1.00 ~ 0.80 A	2%	40W

^① The total regulation on each model is required to use AWG#18/4FT output cable. The regulation will be changed by modified output cable.

Note: The PSE mark is not for each model. Please check website or sales if you need put PSE mark on your products.

Mechanical Specifications :

Note:
 1. Dimensions are shown in mm.
 2. Weight: 275gs approx.
 3. Optional output connector: See page Appendix.

