

SPU25B SERIES

25W Desk Top Switching Power Supplies For I.T.E.

Description:

The SPU25B series of AC/DC switching mode power supplies provide 25 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), 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-C8 Input Inlet
- Output Voltage Available From 5VDC Thru 48VDC
- Optional Output Connector (See appendix)
- Single Output
- Splash proof
- Class II Insulation (Double 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
V _{in}	Input Voltage	Operating Voltage	90		264	VAC
F _{in}	Input Frequency		47		63	Hz
W _o	Output Power Range	V _{in} =90 to 264VAC	0		25	W
V _o	Output Voltage Range		See rating chart			V
I _o	Output Current Range		See rating chart			A
I _{il}	Input Current (Low Line)	I _o =Full load, V _{in} =115VAC			0.4	A
I _{ih}	Input Current (High Line)	I _o =Full load, V _{in} =230VAC			0.25	A
I _{rl}	Low Line Inrush Current	I _o =Full load, 25°C, Cool start, V _{in} =115VAC		12	15	A
I _{rh}	High Line Inrush Current	I _o =Full load, 25°C, Cool start, V _{in} =230VAC		26	30	A
Eff	Efficiency	I _o =Full Load, V _{in} =230VAC	75	85	95	%
REG-i	Line Regulation	I _o =Full Load		0.5	1	%
REG-o	Load Regulation	V _{in} =230VAC	1	3	5	%
OVP	Over Voltage Protection		Nil			%
OCP	Over Current Protection		110		150	%
T _{tr}	Transient Response	I _o =Full Load to Half Load, V _{in} =100VAC			4	mS
Thold	Hold-Up Time	I _o =Full Load, V _{in} =110VAC	12	14	16	mS
T _s	Start Up Time	I _o =Full Load, V _{in} =100VAC		0.25	0.5	S
V _{rn}	Ripple & Noise (Peak to Peak)	Full Load, V _{in} =90VAC		0.5	1	%
I _{lk}	Safety Ground Leakage Current	I _o =Full Load, V _{in} =240VAC		0.15	0.25	mA
T _c	Temperature Coefficient	All output	-0.04		0.04	%/°C
P _{nlc}	Power Consumption (No load)	No load, V _{in} =240VAC	0	0.4	0.5	W

Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
T _{oper}	Operating Temperature		0		70	°C
T _{stg}	Storage Temperature		-40		85	°C
H _r	Relative Humidity		5		95	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.3			MHrs
P _d	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
Ri	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
SPU25B-102	5 ~ 6 VDC	3.00 ~ 2.75 A	5%	16.5W
SPU25B-103	6 ~ 8 VDC	3.30 ~ 2.50 A	5%	20W
SPU25B-104	8 ~ 11 VDC	2.75 ~ 2.00 A	5%	22W
SPU25B-105	11 ~ 13 VDC	2.27 ~ 1.92 A	5%	25W
SPU25B-106	13 ~ 16 VDC	1.92 ~ 1.56 A	5%	25W
SPU25B-107	16 ~ 21 VDC	1.56 ~ 1.19 A	5%	25W
SPU25B-108	21 ~ 27 VDC	1.19 ~ 0.92 A	3%	25W
SPU25B-109	27 ~ 33 VDC	0.92 ~ 0.75 A	3%	25W
SPU25B-110	33 ~ 40 VDC	0.75 ~ 0.62 A	3%	25W
SPU25B-111	40 ~ 48 VDC	0.62 ~ 0.52 A	3%	25W

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: 170gs approx.
3. Optional output connector:
See page Appendix.

