

SPU12B SERIES

15W Wall Mount Switching Power Supplies For I.T.E.

Description:

The SPU12B series of AC/DC switching mode power supplies provide 15 Watts of continuous output power. All supplies are UL 94V-1 min compliant, include a 3 prong plug-in mains connector for certain applications. All models meet CISPR-22 class B emission Limits and are designed to comply new CE requirements. All units are 100% burned in and tested.



Features:

- Wide Operating Voltage 90 to 264 VAC, 47 to 63 Hz
- 3 Prong Plug-In Mains Connector
- Optional Output Connector (See appendix)
- Single Output
- Class II
- 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	0		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			0.3	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	55	70	78	%
REG-i	Line Regulation	Io=Full Load		0.5	1	%
REG-o	Load Regulation	Vin=230VAC		3	12	%
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	5			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		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

* Note: The Ripple & Noise which is under 3.3VDC 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		95	%
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					

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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
Ris	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
SPU12B-101	3 ~ 5 VDC	3.30 ~ 2.00 A	7%	10W
SPU12B-102	5 ~ 6 VDC	2.00 ~ 1.66 A	5%	10W
SPU12B-103	6 ~ 8 VDC	1.66 ~ 1.25 A	5%	10W
SPU12B-104	8 ~ 11 VDC	1.50 ~ 1.09 A	5%	12W
SPU12B-105	11 ~ 13 VDC	1.36 ~ 1.15 A	5%	15W
SPU12B-106	13 ~ 16 VDC	1.15 ~ 0.93 A	5%	15W
SPU12B-107	16 ~ 21 VDC	0.93 ~ 0.71 A	3%	15W
SPU12B-108	21 ~ 27 VDC	0.71 ~ 0.55 A	3%	15W
SPU12B-109	27 ~ 33 VDC	0.59 ~ 0.48 A	3%	16W
SPU12B-110	33 ~ 40 VDC	0.45 ~ 0.37 A	3%	15W
SPU12B-111	40 ~ 50 VDC	0.37 ~ 0.30 A	3%	15W

The output voltage under 15V had been approved by TUV/PSE.

Mechanical Specifications: (UK Type)

Note:

1. Dimensions are shown in mm.
2. Weight: 130gs approx.
3. Optional output connector: See page Appendix.

