

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 with new CE requirements. All units are 100% burned in and tested.



Features:

- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- 3 Prong Plug-In Mains Connector
- Output Voltage Available From 3VDC Thru 50VDC
- Optional Output Connector (See appendix)
- Single Output
- Class II Insulation (Double Insulation)
- Two years 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		15	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			0.3	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	60	70	78	%
REG-i	Line Regulation	I _o =Full Load		0.5	1	%
REG-o	Load Regulation	V _{in} =230VAC		3	7	%
OVP	Over Voltage Protection		Nil			%
OCP	Over Current Protection	Nil But, Output protected to short circuit conditions				%
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	5			mS
T _s	Start Up Time	I _o =Full Load, V _{in} =100VAC	0.3	1	2	S
V _{rn}	Ripple & Noise (Peak to Peak)	Full Load, V _{in} =90VAC		1	2	%
I _{lk}	Safety Ground Leakage Current	I _o =Full Load, V _{in} =240VAC		0.5	0.75	mA
T _c	Temperature Coefficient	All output	-0.04		0.04	%/ c

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	No-Condensing	5		95	%
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			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
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

Mechanical Specifications: (UK Type)

Note:

1. Dimensions are shown in mm.
2. Weight: 115gs approx.
3. Optional output connector:
See page Appendix.

