

SPU10 SERIES

10W Wall Mount Switching Power Supplies For I.T.E.

Description:

The SPU10 series of AC/DC switching mode power supplies provide 10 Watts of continuous output power. All supplies are UL 94V-0 compliant, include a 2 prong plug-in mains connector for certain applications. All models meet FCC class B emission Limits and are designed to comply with UL, C-UL requirements. All units are 100% burned in and tested.



Features:

- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- 2 Prong Plug-In Mains Connector
- Output Voltage Available From 5VDC Thru 40VDC
- Optional Output Connectors (See appendix)
- Single Output
- One year warranty

Safety Approvals:



Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Input Voltage		90		264	VAC
Fin	Input Frequency		47		63	Hz
Wo	Output Power Range	Vin=90 to 264VAC	0		10	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			0.3	A
Iih	Input Current (High Line)	Io=Full load, Vin=230 VAC			0.2	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	60	70	78	%
REG-i	Line Regulation	Io=Full Load		0.5	1	%
REG-o	Load Regulation	Vin=230VAC		3	5	%
OVP	Over Voltage Protection		Nil			%
OCP	Over Current Protection	Nil But, Output protected to short circuit conditions				%
Ttr	Transient Response	Io=Full Load to Half Load, Vin=100VAC			4	mS
Thold	Hold-Up Time	Io=Full Load, Vin=100VAC	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

Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Toper	Operating Temperature		0		70	°C
Tstg	Storage Temperature		-40		85	°C
Hr	Relative Humidity	No-Condensing	5		95	%
Pd	Derated From 100% at +50°C Linearly to 50% at 70°C					

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Safety Specifications:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V _{ps}	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242			VDC
R _i	Isolation Resistance	Test Voltage = 500VDC	50			MΩ
CISPR	EMI requirements for CISPR-22	V _{in} =220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	V _{in} =110VAC	B			CLASS

Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SPU10-102	5 ~ 6 VDC	1.60 ~ 1.33 A	5%	8W
SPU10-103	6 ~ 8 VDC	1.33 ~ 1.00 A	5%	8W
SPU10-104	8 ~ 11 VDC	1.25 ~ 0.91 A	5%	10W
SPU10-105	11 ~ 13 VDC	0.91 ~ 0.77 A	5%	10W
SPU10-106	13 ~ 16 VDC	0.77 ~ 0.63 A	5%	10W
SPU10-107	16 ~ 21 VDC	0.63 ~ 0.48 A	3%	10W
SPU10-108	21 ~ 27 VDC	0.48 ~ 0.37 A	3%	10W
SPU10-109	27 ~ 33 VDC	0.37 ~ 0.30 A	3%	10W
SPU10-110	33 ~ 40 VDC	0.30 ~ 0.25 A	3%	10W

Mechanical Specifications:

Note:

1. Dimensions are shown in mm.
2. Weight: 90gs approx.
3. Optional output connectors:
See page Appendix.

