SPU24 SERIES

24W Desk Top Switching Power Supplies For I.T.E.

Description:

The SPU24 series of AC/DC switching mode power supplies provide 24 Watts of continuous output power. All supplies are UL 94V-0 compliant, include IEC-320-C14 input for worldwide applications. All models meet FCC class B and CISPR class B emission Limits and are designed to comply with UL, C-UL, TUV and 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**
- **Output Voltage Available From 5VDC Thru 48VDC**
- **Optional Output Connector (See appendix)**
- **Single Output**
- **Splash proof**
- **Class I Insulation**
- **Two years 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		24	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			0.7	A
Iih	Input Current (High Line)	Io=Full load, Vin=230 VAC			0.46	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	65	75	85	%
REG-i	Line Regulation	Io=Full Load		0.5	1	%
REG-o	Load Regulation	Vin=230VAC		3	5	%
OVP	Over Voltage Protection	Optional				
OCP	Over Current Protection	Nil.But,Output protected to short circut conditions				%
Ttr	Transient Response	Io=Full Load to Half Load, Vin=100VAC			4	mS
Thold	Hold-Up Time	Io=Full Load, Vin=100VAC	12			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		5		95	%
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 Voltagefor Primary to ground	Primary to ground	2121			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
SPU24-102	5 ~ 6 VDC	3.00 ~ 2.50 A	5%	15W
SPU24-103	6 ~ 8 VDC	3.30 ~ 2.50 A	5%	20W
SPU24-104	8 ~ 11 VDC	2.75 ~ 2.00 A	5%	22W
SPU24-105	11 ~ 13 VDC	2.18 ~ 1.85 A	5%	24W
SPU24-106	13 ~ 16 VDC	1.85 ~ 1.50 A	5%	24W
SPU24-107	16 ~ 21 VDC	1.50 ~ 1.14 A	5%	24W
SPU24-108	21 ~ 27 VDC	1.14 ~ 0.89 A	3%	24W
SPU24-109	27 ~ 33 VDC	0.89 ~ 0.73 A	3%	24W
SPU24-110	33 ~ 40 VDC	0.73 ~ 0.60 A	3%	24W
SPU24-111	48 VDC	0.50 A	2%	24W

Mechanical Specifications :

Note:
1. Dimensions are shown in mm.
2. Weight: 215gs approx.
3. Optional output connector: See page Appendix.

