SPU130 SERIES

130W Desk Top Switching Power Supplies For I.T.E.

Description:

The SPU130 series of AC/DC switching mode power supplies provide 130 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 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 3 VDC Thru 55 VDC
- Optional Output Connectors (See appendix)
- Single and Dual Output
- Input Surge Current, Over Voltage and Over Load protection
- 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		130	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			3.2	A
Iih	Input Current (High Line)	Io=Full load, Vin=230 VAC			1.7	A
Irl	Low Line Inrush Current	Io=Full load, 25 c ,Cool start, Vin=115VAC		15	30	A
Irh	High Line Inrush Current	Io=Full load, 25 c, Cool start, Vin=230VAC		30	60	A
Eff	Efficiency	Io=Full Load, Vin=230VAC		80		%
REG-i	Line Regulation	Io=Full Load		0.5	1	%
REG-o	Load Regulation	Vin=230VAC		3	5	%
OVP	Over Voltage Protection		112		132	%
OCP	Over Current Protection		110		150	%
Ttr	Transient Response	Io=Full Load to Half Load, Vin=100VAC			4	mS
Thold	Hold-Up Time	Io=Full Load, Vin=100VAC	16			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
PFC	Power Factor Correction	Optional	0.3		0.99	

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	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
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			M
CISPR	EMI requirements for CISPR-22	Vin=220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	Vin=110VAC	B			CLASS

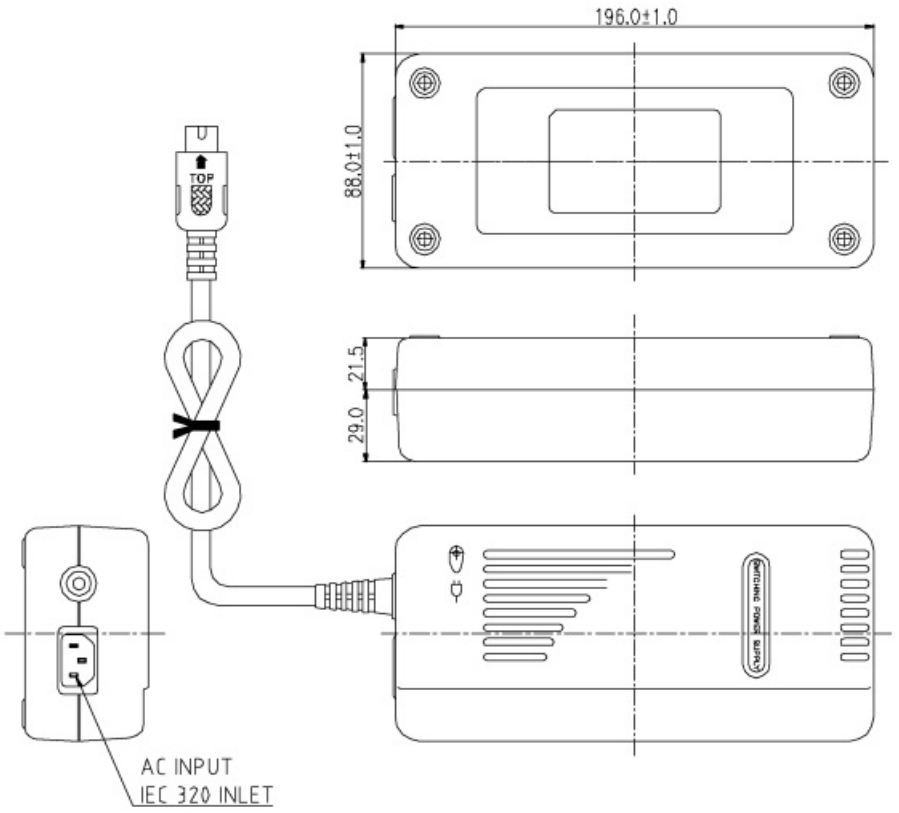
Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SPU130-101	3 ~ 5 VDC	30.00 ~ 18.00 A	7%	90W
SPU130-102	5 ~ 6 VDC	23.00 ~ 19.16 A	7%	115W
SPU130-103	6 ~ 8 VDC	21.60 ~ 16.25 A	7%	130W
SPU130-104	8 ~ 11 VDC	16.25 ~ 11.80 A	5%	130W
SPU130-105	11 ~ 13 VDC	11.80 ~ 10.00 A	5%	130W
SPU130-106	13 ~ 16 VDC	10.00 ~ 8.12 A	5%	130W
SPU130-107	16 ~ 21 VDC	8.12 ~ 6.19 A	5%	130W
SPU130-108	21 ~ 27 VDC	6.19 ~ 4.81 A	5%	130W
SPU130-109	27 ~ 33 VDC	4.81 ~ 3.93 A	5%	130W
SPU130-110	33 ~ 40 VDC	3.93 ~ 3.25 A	5%	130W
SPU130-111	40 ~ 50 VDC	3.25 ~ 2.60 A	5%	130W
SPU130-112	50 ~ 55 VDC	3.25 ~ 2.36 A	5%	130W

Output Voltage And Current Rating Chart (Multi Output) :

Model Number	Output #1				Output #2				Output #3				Maximum Output Power
	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	
SPU130-200	+3.3V	0.5A	20A	5%	+12V	0.2A	2.0A	5%					90W
SPU130-201	+5V	0.5A	20A	5%	+12V	0.2A	2.0A	5%					120W
SPU130-202	+5V	0.5A	20A	5%	+15V	0.2A	2.0A	6%					120W
SPU130-203	+5V	0.5A	20A	5%	+24V	0.1A	2.0A	5%					120W

Mechanical Specifications :



Note:
1. Dimensions are shown in mm.
2. Weight: 860gs approx.
3. Optional output connectors:
   See page Appendix.