SPU131 series

130W Desk Top Type
I.T.E. Power Supplies

Features:

- Wide Operating Voltage 90 to 260 VAC,47 to 63 Hz
- IEC-320-C14 Input Inlet
- Active Power Factor Correction
- Single Output
- ON/OFF SWITCH (Optional)
- Output Voltage Protection (Crowbar Design)
- Energy Star 2.0, Efficiency level V
- Class I
- 2 year warranty

Electrical Characteristics:

Vin	**Safety Approvals Input Voltage Range**		100~240VAC
	Operate Voltage Range		90~260VAC
fin	**Input Frequency**		47~63Hz
PF	**Power Factor Correction**	Io=Full load, Vin=240VAC	0.95~1
Po	**Output Power Range**		See rating chart
Vo	**Output Voltage Range**		See rating chart
Io	**Output Current Range**		See rating chart
Iil	**Input Current (Low Line)**	Io=Full load, Vin=100VAC	1.58A
Iih	**Input Current (High Line)**	Io=Full load, Vin=240VAC	0.64A
Ir	**Low Line Inrush Current**	Io=Full load, 25°C, Cool start, Vin=115VAC	30A (max.)
	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC	50A (max.)
Eff	**Efficiency**	Io=Full Load, Vin=230VAC	87~89%
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	**Time of Transient Response**	Io=Full Load to Half Load, Vin=100VAC	4mS (max.)
Th	**Hold-Up Time**	Io=Full Load, Vin=110VAC	16mS (min.)
Ts	**Start Up Time**	Io=Full Load, Vin=100VAC	2S (max.)
Vp-p	**Ripple & Noise(Peak to Peak)**	Full Load, Vin=90VAC	1% (max.)
Ilk	**Safety Ground Leakage Current**	Vin=240VAC/60Hz	0.75mA (max.)
TC	**Temperature Coefficient**	All output	±0.04%/°C
Pno	**No-Load Power Consumption**	No load, Vin=230VAC	See rating chart
Vps	**Dielectric Withstanding Voltage for Primary to secondary**	Primary to secondary	4242VDC (min.)
Vpg	**Dielectric Withstanding Voltage for Primary to PE**	Primary to PE	3232VDC (min.)
Ris	**Isolation Resistance**	Io=Full load,Vin=230VAC	50MΩ (min.)

Environmental

To	**Operating Temperature**	See derating curve
Ts	**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 (min.)
Pd	**Derate linearly from 100% load at 40°C to 50% load at 70°C**	

Application:

- Printer
- Industrial PC
- Power Tools
- DC Motor
- AV Equipment
- LED Lighting

Safety Approvals:

RoHS 2002/95/EC COMPLIANT

UL/c-UL(UL 60950-1:2nd Edition)
TUV/GS(EN 60950-1:2nd Edition)

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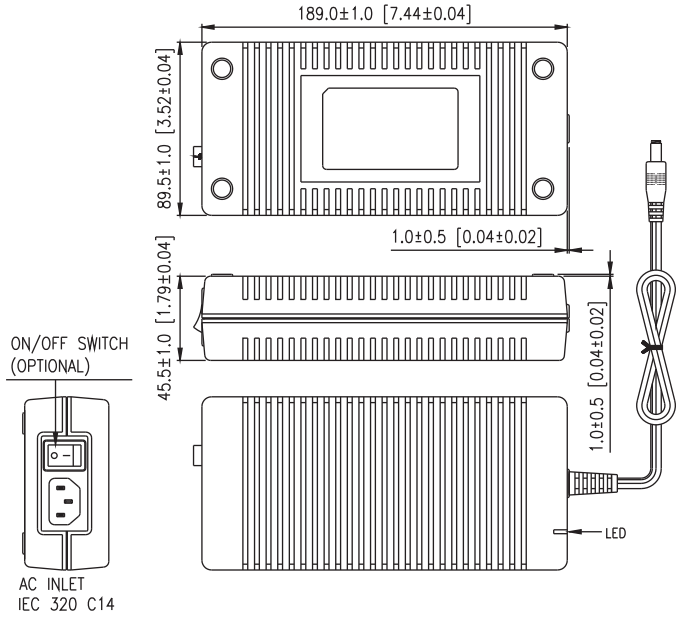
Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
SPU131-105	12 ~ 13 VDC	10.84~10.00 A	5%	130W	0.5W
SPU131-106	13 ~ 16 VDC	10.00~8.12 A	5%	130W	0.5W
SPU131-107	16 ~ 21 VDC	8.12~6.19 A	5%	130W	0.5W
SPU131-108	21 ~ 27 VDC	6.19~4.81 A	3%	130W	0.5W
SPU131-109	27 ~ 33 VDC	4.81~3.93 A	3%	130W	0.5W
SPU131-110	33 ~ 40 VDC	3.93~3.25 A	3%	130W	0.5W
SPU131-111	40 ~ 50 VDC	3.25~2.60 A	3%	130W	0.5W
SPU131-112	50 ~ 55 VDC	2.60~2.36 A	3%	130W	0.5W

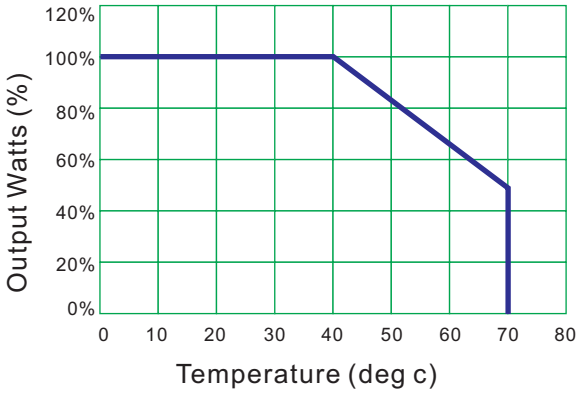
SPU131-105~106 are required to use AWG#16*5C/4FT output cable.
SPU131-107~108 are required to use AWG#16*4C/4FT output cable.
SPU131-109~110 are required to use AWG#16*2C/4FT output cable.
SPU131-111~112 are required to use AWG#18*2C/4FT output cable.
The electrical characteristics will be changed by modified output cable.

Mechanical Specifications:



Note:
1. Dimensions are shown in mm.
2. Weight: 778~800gs approx.
3. Optional output connector:
   See page Appendix.

Derating Curve :



1. Operating Temperature: 0 to 70°C
2. Derate linearly from 100% load at 40°C to 50% load at 70°C

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