

# SPU10 series

10W Wall Mount Type  
I.T.E. Power Supplies

## Features:

- Wide Operating Voltage 90 to 264 VAC, 47 to 63 Hz
- 2 Prong Plug-In Mains Connector
- Optional Output Connector (See page appendix)
- Single Output
- Class II
- Energy Star 2.0, Efficiency level V
- 2 year warranty



## Electrical Characteristics:

Vin	Safety Approvals Input Voltage Range		100~240VAC
	Operate Voltage Range		90~264VAC
fin	Input Frequency		47~63Hz
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	0.3A
Iih	Input Current (High Line)	Io=Full load, Vin=240VAC	0.3A
Ir	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC	35A (max.)
	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC	70A (max.)
Eff	Efficiency	Io=Full Load, Vin=230VAC	71~85%
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	Time of Transient Response	Io=Full Load to Half Load, Vin=100VAC	4mS (max.)
Th	Hold-Up Time	Io=Full Load, Vin=110VAC	12mS (typ.)
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	0.25mA (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.)

## Application:

- Ethernet Hub
- Portable Devices
- Charger
- Monitor
- Set-top Box
- AV Equipment

## Safety Approvals:



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

## 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	



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## Output Voltage And Current Rating Chart ( Single Output ) :

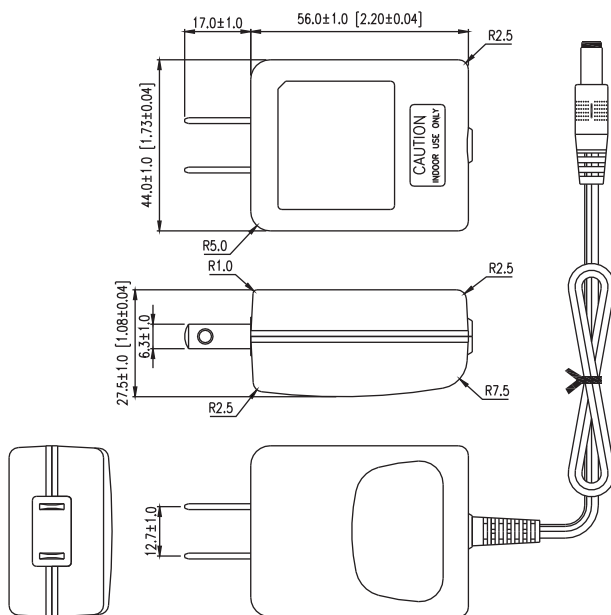
Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
SPU10-102	5 ~ 6 VDC	1.60 ~ 1.33 A	5%	8W	0.3W
SPU10-103	6 ~ 8 VDC	1.33 ~ 1.00 A	5%	8W	0.3W
SPU10-104	8 ~ 11 VDC	1.25 ~ 0.90 A	5%	10W	0.3W
SPU10-105	11 ~ 13 VDC	0.90 ~ 0.76 A	5%	10W	0.3W
SPU10-106	13 ~ 16 VDC	0.76 ~ 0.62 A	5%	10W	0.3W
SPU10-107	16 ~ 21 VDC	0.62 ~ 0.47 A	3%	10W	0.3W
SPU10-108	21 ~ 27 VDC	0.47 ~ 0.37 A	3%	10W	0.3W
SPU10-109	27 ~ 33 VDC	0.37 ~ 0.30 A	3%	10W	0.3W
SPU10-110	33 ~ 40 VDC	0.30 ~ 0.25 A	3%	10W	0.3W

SPU10-102~105 are required to use AWG#20 / 4FT output cable.

SPU10-106~110 are required to use AWG#24 / 4FT output cable.

The regulation and efficiency will be changed by modified output cable.

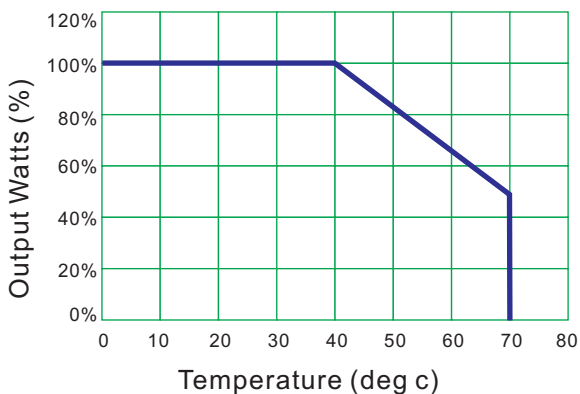
## Mechanical Specifications:



### Note:

1. Dimensions are shown in mm.
2. Weight: 90gs 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