

# SPU 1 1 SERIES

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

### Description:

The SPU11 series of AC/DC switching mode power supplies provide 10 Watts of continuous output power. All supplies are UL 94V-0 min compliant, include a 2 prong plug-in mains connector for certain applications. All models All models meet FCC class B 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 Connector (See appendix)
- Single Output
- CEC level V and Energy Star 2.0 Compliance
- Class II
- 2 year warranty

### Safety Approvals:



### Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Input Voltage	Operating Voltage	90		264	VAC
fin	Input Frequency		47		63	Hz
Po	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=230VAC			0.2	A
Irl	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		20	30	A
Irh	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC		45	60	A
Eff	Efficiency	Io=Full Load, Vin=230VAC	72	80	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			4	mS
Thold	Hold-Up Time	Io=Full Load, Vin=100VAC	5	10		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		0.2	0.25	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	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1M			Hrs
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
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 <sup>①</sup>	Maximum Output Power
SPU11-102	5 ~ 6 VDC	1.60 ~ 1.33 A	5%	8W
SPU11-103	6 ~ 8 VDC	1.33 ~ 1.00 A	5%	8W
SPU11-104	8 ~ 11 VDC	1.25 ~ 0.91 A	5%	10W
SPU11-105	11 ~ 13 VDC	0.91 ~ 0.77 A	5%	10W
SPU11-106	13 ~ 16 VDC	0.77 ~ 0.63 A	5%	10W
SPU11-107	16 ~ 21 VDC	0.63 ~ 0.48 A	3%	10W
SPU11-108	21 ~ 27 VDC	0.48 ~ 0.37 A	3%	10W
SPU11-109	27 ~ 33 VDC	0.37 ~ 0.30 A	3%	10W
SPU11-110	33 ~ 40 VDC	0.30 ~ 0.25 A	3%	10W

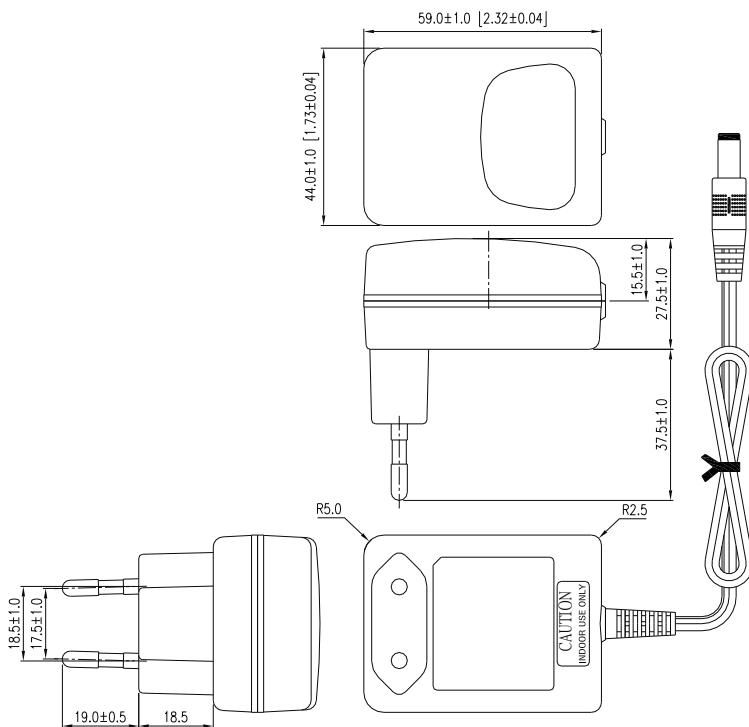
Mark " \* " means approved by CEC level V.

① The total regulation on model 102~105 is required to use AWG#20 / 4FT output cable.

The total regulation on model 106~110 is required to use AWG#24 / 4FT output cable.

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

### Mechanical Specifications: (European Type)



Note:

1. Dimensions are shown in mm.

2. Weight: 90gs approx.

3. Optional output connector:  
See page Appendix.