

SPU26 SERIES

25W Interchangeable Wall Mount Switching Power Supplies For I.T.E.

Description:

The SPU26 series of AC/DC switching mode power supplies provide 25 Watts of continuous output power. All supplies are UL 94V-1 min compliant. All models meet FCC Part-15 class B and CISPR-22 class B emission Limits and are designed to comply with UL/c-UL (UL 60950-1:2nd Edition), TUV/GS (EN 60950-1:2nd Edition) and new CE requirements. All units are 100% burned in and tested.



Features:

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

Safety Approvals:



Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Safety Approvals Input Voltage Range		100		240	VAC
	Operate Voltage Range		90		264	VAC
fin	Input Frequency		47		63	Hz
Po	Output Power Range	Vin=90 to 264VAC			25	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			0.55	A
Iih	Input Current (High Line)	Io=Full load, Vin=230VAC			0.35	A
Irl	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		25	50	A
Irh	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC		50	100	A
Eff	Efficiency	Io=Full Load, Vin=230VAC	77	82	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=110VAC	12			mS
Ts	Start Up Time	Io=Full Load, Vin=100VAC		2	3	S
Vp-p	Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC		0.5	1	%
Ilk	Safety Ground Leakage Current	Io=Full Load, Vin=240VAC			0.25	mA
TC	Temperature Coefficient	All output	-0.04		0.04	%/°C
Pno	No-Load Power Consumption	No load, Vin=240VAC	0	0.25	0.3	W

Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Toper	Operating Temperature		0	40	70	°C
Tstg	Storage Temperature		-40		85	°C
Ho	Operating Humidity		0		95	%
Hr	Storage Humidity		0		75	%
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:

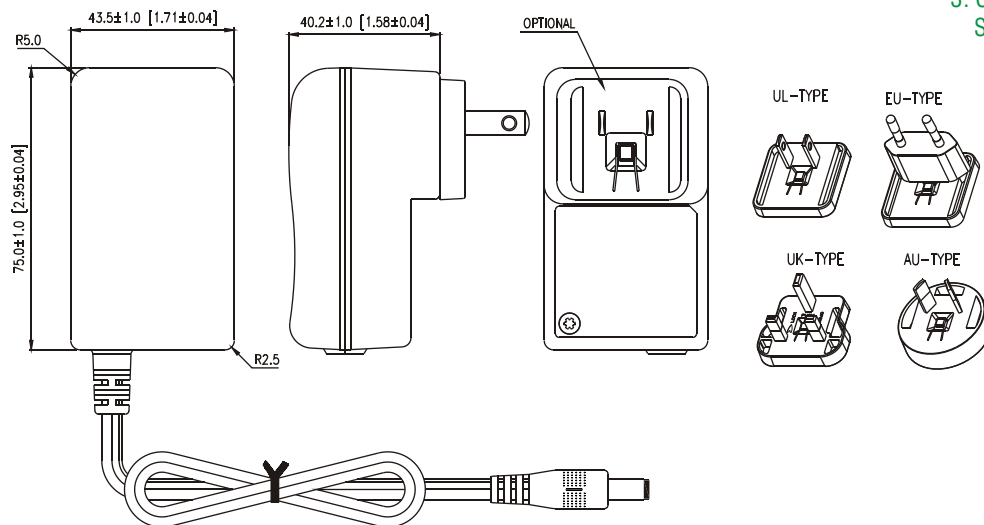
Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vps	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242			VDC
Ris	Isolation Resistance	Test Voltage=500VDC	50			MΩ
CISPR	EMI requirements for CISPR-22	Vin=220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	Vin=110VAC	B			CLASS

Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Max. Output Current	Total Regulation ①	Max. Output Watts
SPU26-102	5 ~ 6 VDC	3.30 ~ 2.75 A	5%	16.5W
SPU26-103	6 ~ 8 VDC	3.33 ~ 2.50 A	5%	20W
SPU26-104	8 ~ 11 VDC	2.75 ~ 2.00 A	5%	22W
SPU26-105	11 ~ 13 VDC	2.27 ~ 1.92 A	5%	25W
SPU26-106	13 ~ 16 VDC	1.92 ~ 1.56 A	5%	25W
SPU26-107	16 ~ 21 VDC	1.56 ~ 1.19 A	5%	25W
SPU26-108	21 ~ 27 VDC	1.19 ~ 0.92 A	3%	25W
SPU26-109	27 ~ 33 VDC	0.92 ~ 0.75 A	3%	25W
SPU26-110	33 ~ 40 VDC	0.75 ~ 0.62 A	3%	25W
SPU26-111	40 ~ 48 VDC	0.62 ~ 0.53 A	3%	25W

- ① SPU26-102~109 are required to use AWG#18×2C/4FT output cable.
 SPU26-110~111 are required to use AWG#20×2C/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: 200gs approx.
3. Optional output connector: See page Appendix.