General



25W Interchangeable Power Supply for General Purpose

SPU26 series

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, TUV/GS and CE marking conformity assessment. All units are 100% burned in and tested.



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Electrical Characteristics:

RoHS2 2011/65/EU

APPLICATIONS:

* Ethernet Hub

FEATURES:

* Single Output

* DoE VI * 3 year warranty

* Interchangeable Plug

- * Portable Devices
- * Charger
- * Monitor
- * Set-top Box
- * AV Equipment

GENERAL SPECIFICATION:

- * Short Circuit Protection: Auto Recovery
- * Cooling: Free Air Convection
- * Flammability Rating: UL94V-1
- * Protection Classes: Double insulated, Class II

* Wide Operating Voltage 90 to 264 VAC,47 to 63 Hz

* Optional Output Connector (See page appendix)

- * Safety: UL 60950-1:2nd Edition, IEC 60950-1:2005 /A2:2013,
 - EN60950-1:2006 /A2:2013, CSA C22.2 No.60950-1-07

Symbol	Characteristic	Condition	Min.	Тур.	Max.	Unit		
Vins	Safety Approval Input Voltage Range	Safety Approval & Specification in Label			240	VAC		
Vin	Input Operate Voltage Range	Detail to see Fig.1	90		264	VAC		
Fi	Input Frequency	Sine wave	47		63	Hz		
Ро	Output Power Range	See Rating Chart			25	W		
Iil	Low Line Input Current	Full Load, Vin=100VAC		0.70		Α		
Iih	High Line Input Current	Full Load, Vin=240VAC		0.29		Α		
Irl	Low Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=100VAC	25		50	Α		
Irh	High Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=240VAC	50		120	Α		
Ik	Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.25	mA		
η	Efficiency	Full Load, Vin=230VAC, Detail to see Rating Chart	See Rating Chart					
Voi	Line Regulation	Full Load, Vin=100~120VAC	0.5		1	%		
VoL	Load Regulation	Vin=230VAC, 10~90% Load Change at Condition	3		5	%		
OLP	Over Load Protection	Nil.But,Output protected to short circuit conditions						
ttr	Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms		
thu	Hold-Up Time	Full Load, Vin=100VAC	See Rating Chart					
ts	Start-up time	Full Load, Vin=100~240VAC			3	S		
Тс	Temperature Coefficient	Full load, Vin=100~240VAC			±0.04	%/°C		
HV	Dielectric Withstanding Voltage (P-S)	Primary to Secondary			4242	VDC		
EMI	EMC Emission	Compliance to EN55022 (CISPR22)			В	Class		

Environmental:

Symbol	Characteristic	Condition	Min.	Тур.	Max.	Unit
То	Operating Temperature	Detail to see Fig.2 (Derate linearly from 100% load at 40°C to 50% load at 70°C)	0		70	°C
Ts	Storage Temperature	10 ~ 95% RH	-40		85	°C
Но	Operating Humidity	non-condensing	0		95%	RH
Hs	Storage Humidity		0		95%	RH
ESDa	Electro Static Discharge	Air Discharge, IEC61000-4-2			8	kV
ESDc	Electro Static Discharge	Contact Discharge, IEC61000-4-2			4	kV
MTBF	Mean Time Between Failure	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	100k			h
ELEV	Operating Altitude (Elevation)	All condition			3000	m
VBR	Vibration	10 ~ 500Hz, 10min./1cycle, 60min. each along X, Y, Z axes			5	G
Vsl	Surge Voltage	Line-Neutral			1	kV
Vsg	Surge Voltage	Line-PE & Neutral-PE			2	kV

Genera

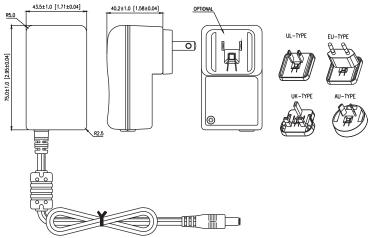
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SPU26 series

SPECIFICATION NOTE :

- Output can provide up to peak load when the power supply starts up. Continuous staying in more than rated load is not allowed.
- 2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
- 3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- 4. Load regulation is defined by changing $\pm40\%$ of measured output load from 60% rated load.
- Ripple & noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal line.
- 6. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.
- 7. Efficiency is measured at rated load, and nominal line.

MECHANICAL DIMENSIONS: (UNIT: mm)



100 90 LOAD (%) 80 70 60 50 80 100 120 140 160 220 240 260 280 180 200 INPUT VOLTAGE (VAC) (FIG.1) INPUT VOLTAGE DERATING CURVE 110 100 90 80 70 60 50 40 30 20 10 0 10 30 40 50 6 TEMPERATURE (°C) (FIG.2) TEMPERATURE DERATING CURVE 80 90 0 20 60 70

OUTPUT CABLE RECOMMEND :

1. Selected output connectors and wire, please refer to Appendix.

2. SPU26-102~109 are required to use AWG#18×2C/4FT output cable.

3. SPU26-110~111 are required to use AWG#20×2C/4FT output cable.

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

PACKING :

110

1. Net weight: 200g approx.

2. Optional output connectors available contact sales for details.

MODEL NO.	Setting Voltage Range (Factory setting, can't be adjusted)		Output Current (Based on the output volt.)		Maximum Output Power	Ripple & Noise	Total Regulation	Typ. Efficiency	Typ. No Load Consumption	Hold-Up Time	Protection
	min max (VDC) (VDC)	min	max	/er	ise	tion	псу	be	ne	Mode	
		(VDC)	(A)	(A)	(W)	(mVp-p)	(%)	(%)	(W)	(ms)	e
SPU26-102	5.0	5.99	2.75	3.30	16.5	60	±5	82	0.1	12	Hiccup
SPU26-103	6.5	8.0	2.50	3.07	20	80	±5	85.5	0.1	12	Hiccup
SPU26-104	8.0	11.0	2.00	2.75	22	100	±5	85.9	0.1	12	Hiccup
SPU26-105	11.0	13.0	1.92	2.27	25	100	±5	86.4	0.1	12	Hiccup
SPU26-106	13.0	16.0	1.56	1.92	25	120	±5	86.4	0.1	12	Hiccup
SPU26-107	16.0	21.0	1.19	1.56	25	200	±5	86.4	0.1	12	Hiccup
SPU26-108	21.0	27.0	0.92	1.19	25	200	±3	87	0.1	12	Hiccup
SPU26-109	27.0	33.0	0.75	0.92	25	200	±3	87	0.1	12	Hiccup
SPU26-110	33.0	40.0	0.62	0.75	25	250	±3	88	0.1	12	Hiccup
SPU26-111	40.0	48.0	0.53	0.62	25	300	±3	88	0.1	12	Hiccup

Rating Chart:



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