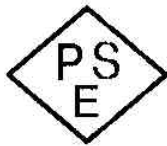




# Switching Power Supplies

## SPS-01 Series 1W to 2.5W

The SPS-01 series of AC/DC switching mode power supplies provide 1 to 2.5 Watts of continuous output power. This series meets the FCC Class B emission limits, and complies with UL, cUL, & PSE requirements.



### Features:

- \*Universal AC input voltage
- \*2 prong plug-in mains connector
- \*Single output.
- \*Optional output connectors
- \*Build-in EMI Filter. Low ripple and noise
- \*Short circuit and over load protection.

### Input:

Parameter	Condition/Description	Min	Nom	Max	Units
Input voltage		100		240	VAC
Input voltage Variety		90		264	VAC
Input AC frequency		47		63	Hz
Inrush current	Cold start @25 ; peak at 100 VAC peak at 240 VAC			10	A
				20	A
Leakage current	264 VAC input			0.5	mA

### Output:

Parameter	Condition/Description	Min	Nom	Max	Units
Line regulation		-1%		+1%	
load regulation		-5%		+5%	
Ripple & noise	20MHz bandwidth			1.0% Vout	Vpp
Output power	0 to 40			2.5	W
Hold-up time	Full load		10		ms
Dielectric strength	Input/output	1800			VAC

## Protection:

Over-current protection	Rating output current	110%		160%	
Over-voltage protection	Rating output voltage	110%		140%	

## General & Environmental:

parameter	Condition/Description	min	nom	max	units
Efficiency	Typical at full load		60%		
Life	Typical at full load		50k		hours
Operating temperature		0		+40	
Storage temperature		-40		+85	
Humidity	Non-condensing	5%		90%	RH
Vibration	Vibration frequency 1,500 cycle/minute Swing 2mm Peak-Peak 3 Direction (X-Y-Z) each 30 minute				

## Model:

Model	Output Voltage (V)	Output Current (A)	Output Power (W)
SPS-01C3.3-0.5	3.3	0.5	1.65
SPS-01C5-0.25	5	0.25	1.25
SPS-01C5-0.5	5	0.5	2.5
SPS-01C6-0.25	6	0.25	1.5
SPS-01C6-0.4	6	0.4	2.4
SPS-01C7-0.35	7	0.35	2.45
SPS-01C9-0.25	9	0.25	2.25
SPS-01C10-0.25	10	0.25	2.5
SPS-01C12-0.2	12	0.2	2.4
SPS-01C15-0.15	15	0.15	2.25
SPS-01C16-0.15	16	0.15	2.4
SPS-01C18-0.13	18	0.13	2.34
SPS-01C20-0.1	20	0.1	2
SPS-01C24-0.1	24	0.1	2.4
SPS-01C27-0.08	27	0.08	2.16
SPS-01C33-0.06	33	0.06	1.98
SPS-01C48-0.05	48	0.05	2.4