



# Switching Power Supplies

## SPS-02 Series 2.5W to 5W

The SPS-02 series of AC/DC switching mode power supplies provide 2.5 to 5 Watts of continuous output power. This series meets the FCC Class B emission limits, and complies with CE, UL, cUL, SAA, C-Tick & PSE requirements.



### Features:

\*Universal AC input voltage

\*2&3 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			5	W
Hold-up time	Full load		10		ms
Dielectric strength	Input/output	3000			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		65%		
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-02C3.3-1	3.3	1	3.3
SPS-02C3.3-1.5	3.3	1.5	4.95
SPS-02C5-0.5	5	0.5	2.5
SPS-02C5-1	5	1	5
SPS-02C6-0.5	6	0.5	3
SPS-02C7-0.5	7	0.5	3.5
SPS-02C9-0.5	9	0.5	4.5
SPS-02C10-0.5	10	0.5	5
SPS-02C12-0.4	12	0.4	4.8
SPS-02C15-0.3	15	0.3	4.5
SPS-02C16-0.3	16	0.3	4.8
SPS-02C18-0.25	18	0.25	4.5
SPS-02C20-0.25	20	0.25	5
SPS-02C24-0.2	24	0.2	4.8
SPS-02C27-0.15	27	0.15	4.05
SPS-02C33-0.15	33	0.15	4.95
SPS-02C48-0.1	48	0.1	4.8