



Switching Power Supplies SPS-06 Series 10W to 25W

The SPS-06 series of AC/DC switching mode power supplies provide 10 to 25 Watts of continuous output power. This series meets the FCC Class B emission limits, and has obtained CB,CE,UL,cUL, SAA certificates and complies with C-Tick & PSE requirements.



CB



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Size:93x42x29mm

Features:

- *Universal AC input voltage
- *IEC 320 Input Inlet
- *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			20	A
	peak at 240 VAC			40	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%V _{out}	V _{pp}
Output power	0 to 40			20	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		70%		
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/min Swing 2mm Peak-Peak 3 Direction (X-Y-Z) each 30 minute				

Model:

Model	Output Voltage (V)	Output Current (A)	Output Power (W)
SPS-06C5-3	5	3	15
SPS-06C6-2	6	2	12
SPS-06C6-3	6	3	18
SPS-06C7-2	7	2	14
SPS-06C7-2.5	7	2.5	17.5
SPS-06C7-3	7	3	21
SPS-06C9-1.5	9	1.5	13.5
SPS-06C9-2	9	2	18
SPS-06C10-1.5	10	1.5	15
SPS-06C10-2	10	2	20
SPS-06C12-1	12	1	12
SPS-06C12-1.5	12	1.5	18
SPS-06C12-2	12	2	24
SPS-06C15-1	15	1	15
SPS-06C16-1	16	1	16
SPS-06C16-1.25	16	1.25	20
SPS-06C18-1	18	1	18
SPS-06C20-0.5	20	0.5	10
SPS-06C20-1	20	1	20
SPS-06C24-0.8	24	0.8	19.2
SPS-06C27-0.6	27	0.6	16.2

SPS-06C33-0.5	33	0.5	16.5
SPS-06C48-0.4	48	0.4	19.2

Conducted EMI Results

10135103 SEP 30, 1999

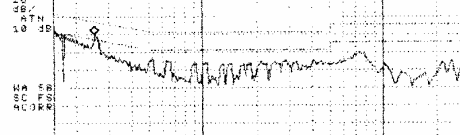
MARKER
250 kHz
54.55 dBμV

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
RNR 250 kHz
54.55 dBμV

MARKER
250 kHz
54.55 dBμV

230 VAC

LOG REF 75.0 dBμV



MARKER
250 kHz
54.55 dBμV

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

Line
peak measurement
QP and AV limits

10135142 SEP 30, 1999

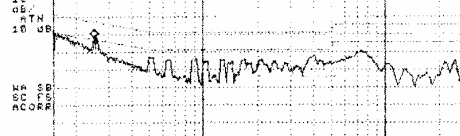
MARKER
250 kHz
53.20 dBμV

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
RNR 250 kHz
53.20 dBμV

MARKER
250 kHz
53.20 dBμV

Neutral
peak measurement
QP and AV limits

LOG REF 75.0 dBμV



MARKER
250 kHz
53.20 dBμV

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

> 10 dB worst case margin to CISPR22B on accurate QP measurement