

10 WATT
SINGLE OUTPUT SWITCHING
ADAPTER
WTS10-SX-Y-C2 SERIES
WTS available in U.S. and Europe PLUGS.



GENERAL SPECIFICATION

The purpose of the document is to specify the functional requirements of a 10W switching AC adapter.

Features:

- Two pin wall mount input plug
- Wide range AC input
- Level B EMI filter
- Fully enclosed plastic case
- Fully regulated output
- High efficiency
- High Quality
- Power saving state under 0.3 watts**
- U.S. Plug**



1) INPUT

	Min.	Nominal	Max.	Condition
Input Voltage	90VAC	100/240VAC	264VAC	Auto Range; 50/60Hz
Input Current(rms)	0.5 Arms Max. At any input voltage and Max. DC output rated load.			
Line Frequency	47Hz	50/60Hz	63Hz	-
Inrush Current	70 Amps Max. Cold start at 230Vac input, with rated load and 25 °C			
AC Leakage Current	1 mA Max. At 240Vac input			
Efficiency	75% min. At full load and 115 VAC (For 12.5W 66% Min. At Normal AC input and output Max. Load.)			

2) OUTPUT

Model	Nominal Voltage	Max. Power	Output Current		Line Regulation	Load Regulation	Ripple & Noise
			MIN.	MAX.			
WTS10-3.3SX-Y-C2	3.3VDC	6.6W	0A	2.0A	±1%	±5%	33mVp-p
WTS10-3.6SX-Y-C2	3.6VDC	7.2W	0A	2.0A	±1%	±5%	36mVp-p
WTS10-07SX-Y-C2	7VDC	7.5W	0.0A	1.5A	±1%	±5%	70mVp-p
WTS10-4.2SX-Y-C2	4.2VDC	10W	0.0A	2.3A	±1%	±5%	42mVp-p
WTS10-05SX-Y-C2	5VDC	10W	0.0A	2.0A	±1%	±5%	50mVp-p
WTS10-09SX-Y-C2	9.0VDC	10W	0.0A	1.11A	±1%	±5%	90mVp-p
WTS10-12SX-Y-C2	12.0VDC	10W	0.0A	0.83A	±1%	±5%	120mVp-p
WTS12-7.5SX-Y-C2	7.5VDC	11.25W	0.0A	1.5A	±1%	±5%	75mVp-p
WTS12-05SX-Y-C2	5VDC	12.5W	0.0A	2.5A	±1%	±5%	50mVp-p
WTS15-12SX-Y-C2	12VDC	15W	0.0	1.25A	±1%	±5%	120mVp-p

NOTE: The ripple and noise are as follows when measure with Max. Bandwidth of 20 MHz and parallel 10uF/0.1uF, cross-connected at testing point.

- 2.1) Hold up time:** 8ms typical at full load @ 115VAC (for 12.5W, Hold up time is 8ms)
- 2.2) Turn On Delay:** 100mS Max. At 115Vac input and output Max. Load.
- 2.3) Rise Time:** 20mS Max. At 115Vac input and output Max. Load.
- 2.4) Overshoot:** 12% Max. When power supply at turn on or turn off.
- 2.5) Ripple/Noise (Vp-p):** 2% (20MHz Bandwidth)

3) **PROTECTION:**

3.1) **Short Circuit Protection:**

The power supply will be auto recovery when short circuit faults remove. Pulsing mode.

3.2) **Over Power Protection:**

120% ~ 180% active for 12.5W rated of power.
Total power protection at normal AC input voltage,
The power supply will be auto recovery.

3.3) **Over Voltage Protection:**

Built-in.

4) **ENVIRONMENT**

4.1) **Operating Temperature:**

0°C to 40°C, ambient

4.2) **Storage Temperature:**

-20°C to 80°C ambient

4.3) **Relative Humidity:**

5% (0°C) ~ 90%(40°C) RH, 72Hrs, Full load, Normal operating

4.4) **Vibration:**

4.4.1) **Operating: IEC 721-3-3 3M3**

5~9Hz, A=1.5mm
9~200Hz, Acceleration 5m/s²

4.4.2) **Transportation: IEC 721-3-2 2M2**

5~9Hz, A=3.5mm
9~200Hz, Acceleration=5m/s²
200~500Hz, Acceleration=15m/s²

3 Axes, 10 cycles per axis.

(No permanent damage may occur during testing.

The product has to restore to its original situation after power off/on.)

4.5) **Dropping (packed):**

1 corner, 3 edges, and 6 surfaces
(Height: 76 cm)

5) SAFETY REQUIREMENTS

5.1) Safety Or EMC Requirement:

5.1.1) Model with US Plug

FCC
UL/CUL

Meet CEC requirements which go into effect January 1, 2007 (Energy Star)

5.2) EMI Requirement:

FCC Class B
VCCI Class B
CISPR 22 Class B

5.3) Dielectric Strength (Hi-Pot):

Primary to secondary, 3000Vac/10mA/1Seconds
Or 4242Vdc/10mA/1Seconds

6) MECHANICAL REQUIREMENT:

6.1) Enclosure:

The adapter size L:62×W:27×H:46mm

6.2) Input Connector:

Two pin wall mount input plug

6.3) Outline Drawing:

