

10 WATT

SINGLE OUTPUT SWITCHING ADAPTOR

WTS10-SX-Y-2 SERIES

GENERAL SPECIFICATION

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

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



1) INPUT

Description	Min.	Nominal	Max.	Condition
Input Voltage	90VAC	100/240VAC	264VAC	Auto Range; 50/60Hz
Input Current(rms)	1.0 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 230 Vac input, with rated load and 25 °C ambient			
AC Leakage Current	1 mA Max. At 240Vac input			
Efficiency	70% typ. At full load and 115 VAC (For 12.5W 66% Min. At Normal Ac input and output Max. Load.)			

2) OUTPUT

Model No.	Nominal Voltage	Max. Power	Output Current		Line Regulation	Load Regulation	Ripple & Noise
			MIN.	MAX.			
WTS10-05SX-Y-2	5VDC	10W	0.0A	2.0A	±1%	±5%	50mVp-p
WTS10-06SX-Y-2	6VDC	10W	0.0A	1.66A	±1%	±5%	60mVp-p
WTS10-7.5SX-Y-2	7.5VDC	10W	0.0A	1.33A	±1%	±5%	75mVp-p
WTS10-09SX-Y-2	9.0VDC	10W	0.0A	1.11A	±1%	±5%	90mVp-p
WTS10-12SX-Y-2	12.0VDC	10W	0.0A	0.83A	±1%	±5%	120mVp-p
WTS10-05SX-B-Y-2	5VDC	12.5W	0.0A	2.5A	±1%	±5%	50mVp-p

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

2.1) Hold up time: 12ms 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.

3) PROTECTION:

3.1) Short Circuit Protection:

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

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:

Build-in.

4) ENVIRONMENT

4.1) Operating Temperature:

5°C to 40°C, Full load, Normal operation.

4.2) Storage Temperature:

-20°C to 85°C Without package

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

UL 1950
CUL (CSA C22.2 No. 950-95)
FCC PART 15
CB EN60950
BSMI
PSE

5.2) EMI Requirement:

FCC Class B
VCCI Class B
CISPR 22 Class B
CE EN55022 Class B for '98 "CE" mark
(Include Conduction & Radiation)

5.3) Dielectric Strength (Hi-Pot):

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

6) MECHANICAL REQUIREMENT:

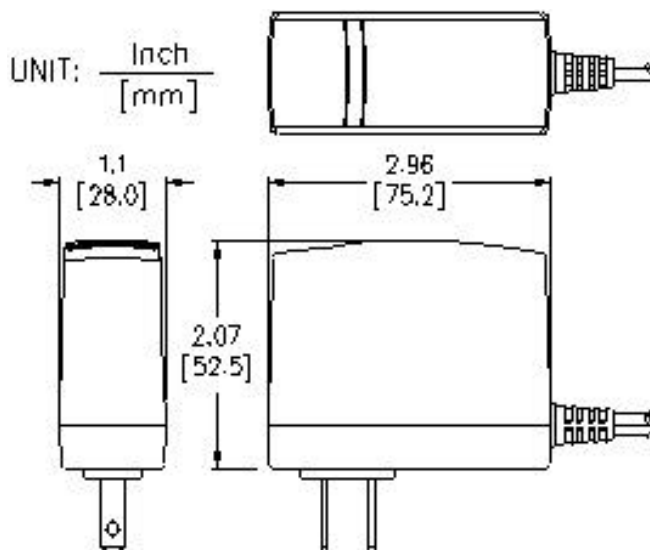
6.1) Enclosure:

The adaptor size L:75.2×W:28.0×H:52.5mm

6.2) Input Connector:

Two pin wall mount input plug

6.3) Outline Drawing:



Mouser Electronics

Authorized Distributor

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