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1、 SCOPE:

The purpose of the document is to specify the functional requirements of a 27.0 W switching power supply.

2、 INPUT CHARACTERISTICS:

2.1 Input Voltage:

Rated Voltage:100-240Vac

Variation Range:90-264Vac

2.2 Input Frequency:

Rated Frequency: 50/60Hz.

Variation Frequency: 47-63Hz

2.3 Input Current:

0.7 Amps max At any input voltage and rated, DC output rated load.

2.4 Ac Leakage Current:

0.7mA Peak.At264Vac input

2.5 Inrush Current:

100Amps Max. Cold start at 240Vac input, with rated load and 25°C ambient.

3. OUTPUT CHARACTERISTICS:

3.1 Power output

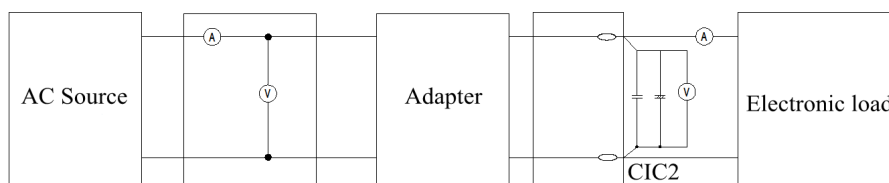
Voltage	Min. Load	Rated. Load	Peak Current	Output power
3.0-12.0Vdc	0.00A	2.25A	2.35-4.5A	27.0W

3.2 Combined Load/Line Regulation

Voltage	Min. Load	Rated. Load	Line Regulation	Load Regulation
3.0-6.0Vdc	0.00A	2.25A	±3% (2.91-6.18V)	±10% (2.7-6.6V)
7.5-12.0Vdc	0.00A	2.25A	±3% (7.275-12.36V)	±5% (7.12-12.6V)

3.3 Ripple and Noise:

Output Ripple voltage is 200mV peak to peak or less.(100Vac 60Hz / 240Vac 50Hz)



Measured methods:

*The ripple is measured from peak to peak with band width limit of 20MHz C1:0.1uF Ceramics capacitor C2:47uF/50V aluminum capacitor under DC output full load, AC nominal input 25°C ambient temperature).

3.4 Turn on delay time:

3 Second Max.at 100Vac input and output Max.load.

3.5 Rise time:

40 mS Max.at 100Vac input and output Max load.

3.6 Hold up time:

5 mS Min. at 100Vac input and output Max. Load.

3.7 Efficiency:

3V: 75.88% / 4.5V: 78.79% / 5V: 79.51% / 6V: 83.59% / 7.5V: 84.7% / 9V: 85.52% 12V: 86.62%
at 115Vac input and output Max.Load

3V: 75.88% / 4.5V: 78.79% / 5V: 79.51% / 6V: 83.59% / 7.5V: 84.7% / 9V: 85.52% 12V: 86.62%
at 230Vac input and output Max.Load

3.8 Standby Power:

Rated Voltage:100-240Vac 0.1W max

4. PROTECTION FUNCTION:

4.1 Short circuit protection

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

4.2 Over current Protection:

The power supply will be auto recovered when over current faults remove.

4.3 Output voltage achieve over voltage protection point.

Will auto protection without output.be capable of auto-recovery function

5. ENVIRONMENTAL REQUIREMENT:

5.1 Operating Temperature: -20°C to 50°C ,Full load, Normal operation.

5.2 Storage Temperature: -40°C to 80°C With package

5.3 Relative Humidity: 25%(0°C) ~ 75% (40°C) RH, 72Hrs, Full load, Normal operating.

6. SAFETY AND EMI REQUIREMENT:

6.1 Regulatory Standards.

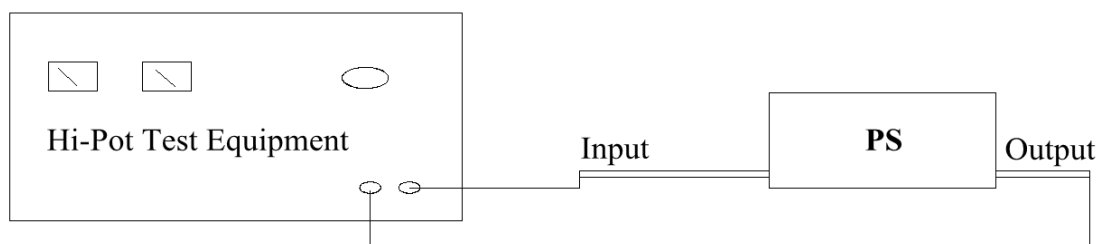
CE EUROPE EN62368-1

6.2 500VDC - 100MΩ

Insulation Resistance: 500VDC primary to the secondary input impedance of 100MΩ(Min)

6.3 DIELECTRIC WITHSTAND Hi-Pot:

HI-POT-- primary to secondary 3000Vac 5mA 1min



6. 4 EMI STANDARD

Meets the Limits of

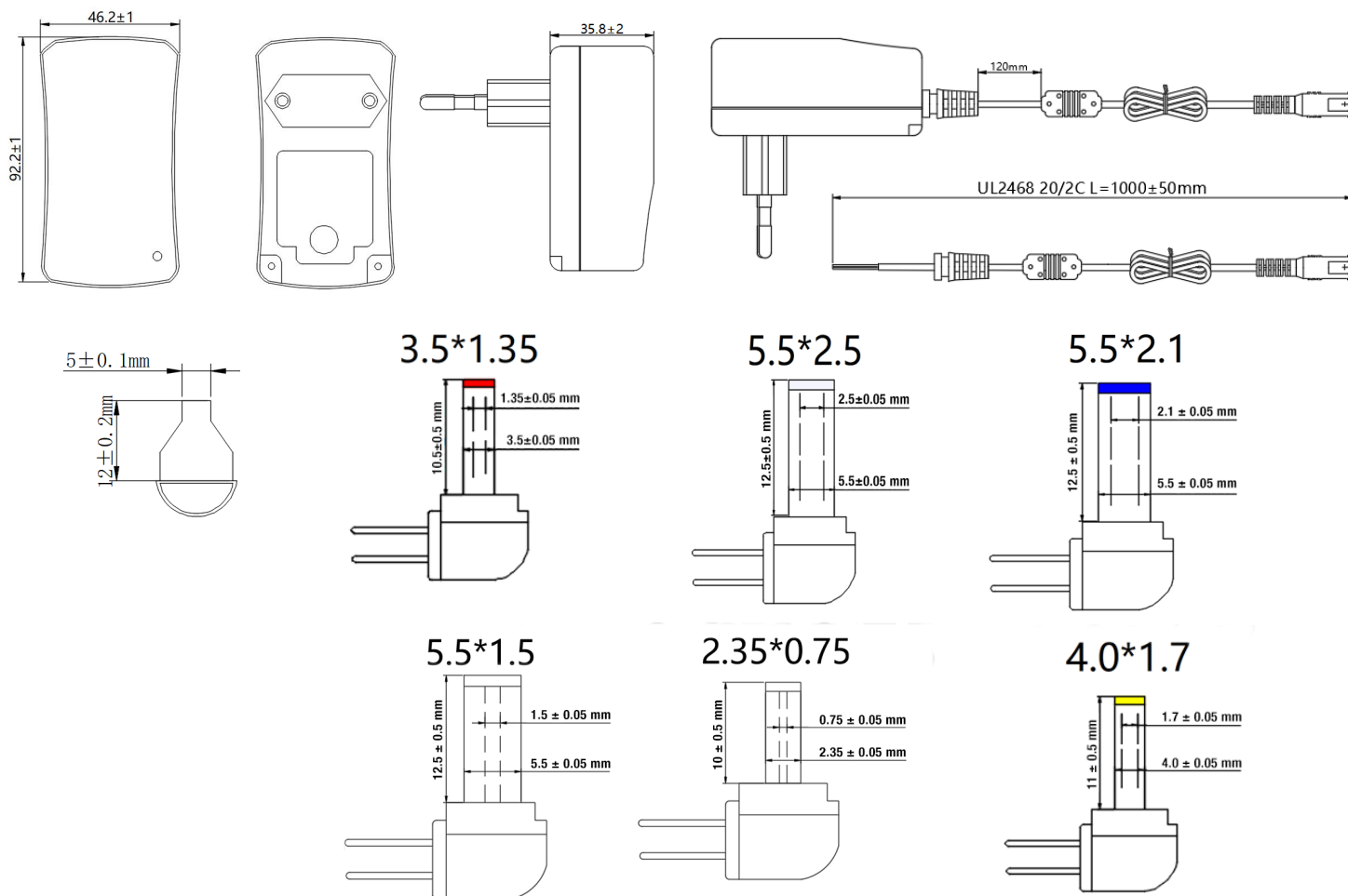
EN 55032:2015+A11:2020

EN 55035:2017+A11:2020

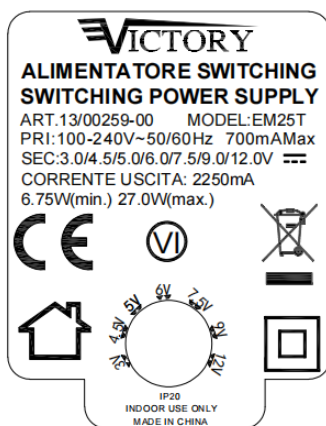
EN IEC 61000-3-2:2019

EN 61000-3-3:2013+A1:2019

7、OUTLINE DIMENSION:



8 LABEL:



Informazione agli utenti ex art. 26 D.Lgs. 49/2014

Il simbolo riportato sull'apparecchiatura (Allegato IX D.Lgs. 49/2014) indica che il rifiuto deve essere oggetto di "raccolta separata" e che è stato immesso sul mercato, in Italia, dopo il 31/12/2010. Pertanto, l'utente dovrà conferire (o far conferire) il rifiuto ai centri di raccolta differenziata predisposti dalle amministrazioni locali, oppure consegnarlo al rivenditore contro acquisto di una nuova apparecchiatura di tipo equivalente. L'utente ha dunque un ruolo attivo: la raccolta differenziata del rifiuto e le successive operazioni di trattamento, recupero e smaltimento favoriscono la produzione di apparecchiature con materiali riciclati e limitano gli effetti negativi sull'ambiente e sulla salute eventualmente causati da una gestione impropria del rifiuto. Nel caso di RAEE di piccolissime dimensioni (<25 cm), l'utente ha diritto al conferimento gratuito, senza obbligo di contestuale acquisto, ai distributori al dettaglio la cui superficie di vendita specializzata eccede i 400 mq.

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