



Specification Approval Sheet

Name: **Tenergy SLA Charger**

Model: **01600**

SPECS: **12V 650mAh**

Approved By	Checkup	Make

Customer Confirmation	Signature	Date
	Company Name:	
	Stamp:	

436 Kato Terrace, Fremont, CA 94539 U.S.A.

Tel: 510.687.0388 Fax: 510.687.0328

www.Tenergy.com



1. SCOPE:

This document describes the switching Adapter's electrical, mechanical, environmental, RoHS, safe certificate, and so on.

2. INPUT CHARACTERISTICS:

2.1 Input Voltage and Frequency:

Rated Voltage	Variation Range	Rated Frequency	Variation Frequency
100-240Vac	90-264Vac	50/60Hz	47-63Hz

2.2 Input Current:

AC current 0.5A max At input rated voltage with output full load.

2.3 Inrush Current: In rated load, 25°C ambient temperature, Cold-state starting at 240Vac input, Inrush Current 50 Amps Max.

3. OUTPUT CHARACTERISTICS:

3.1 Power Output:

Voltage	Min. Load	Max. Load	Output Power
6.0Vdc	0A	650mA	3.9W
12Vdc	0A	650mA	7.8W

3.2 Load character / Line Regulation:

Load	Min. Load	Max. Load
Current	0A	650mA
Voltage	6.0Vdc ± 5%	6.0Vdc ± 5%

Load	Min. Load	Max. Load
Current	0A	650mA
Voltage	12Vdc ± 5%	12Vdc ± 5%

3.3 No load Standby Power:

0.3W Max(115/230Vac)

3.4 Ripple And Noise: Under Rated voltage and nominal load, The ripple and noise are as



follows when measure with Max. Bandwidth of 20MHz and Parallel 47uF/0.1uF, crossed connected at testing point.

Voltage	Ripple And Noise(Max.)
6.0Vdc	200mVp-p
12Vdc	200mVp-p

3.5 Turn On Delay Time:

Turn on time 3 second Max. At Rated Voltage input and output Max. Load.

3.6 Rise Time:

100mS Max. At Rated Voltage input and output Max. Load.

3.7 Hold Up Time:

10mS Min. At Rated Voltage input and output Max. Load.

3.8 Efficiency:

When input voltage 115/230V AC, the average efficiency of (25%. 50%. 75%. 100%) current at load shall be 66.3%(3.9W)/75.14%(7.8W) Min. Meet CEC level V.

3.9 Overshoot:

15% Max. When power supply at turn on or turn off.

4. PROTECTION REQUIREMENT:

4.1 Short Circuit Protection

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

5. ENVIRONMENTAL REQUIREMET:

5.1 Operating Temperature:

0°C to 40°C, Full load, Normal operation.

5.2 Storage Temperature:

-10°C to 70°C (With Case)

5.3 Relative Humidity:

5%(0°C)~90%(35°C)RH, 72Hrs, Full load, Normal operating.

5.4 Vibration:



5.4.1 Operating: IEC 721-3-3 3M3

5-9Hz, A=1.5mm

9~200Hz, Acceleration 5m/s²

5.4.2 Transportation:

IEC 721-3-2 2M2

5-9Hz, A=3.5mm

9~200Hz, Acceleration=5m/S²

200~500Hz, Acceleration=15m/S²

5.4.3 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.)

5.5 Dropping (Packed):

1m (Height: 1m) Each side dropping once, total 6 side.

5.6 RELIABILITY:

According to the standard of MIL-STD-HDBK-217, when ambient temperature

at 25°C, in full load, the life will more than 20,000 hours.

6. EMC (SAFETY AND EMC REQUIREMEN)

6.1 Safety:

Certified	Standard

6.2 DIELECTRIC STRENGTH (Hi-Pot):

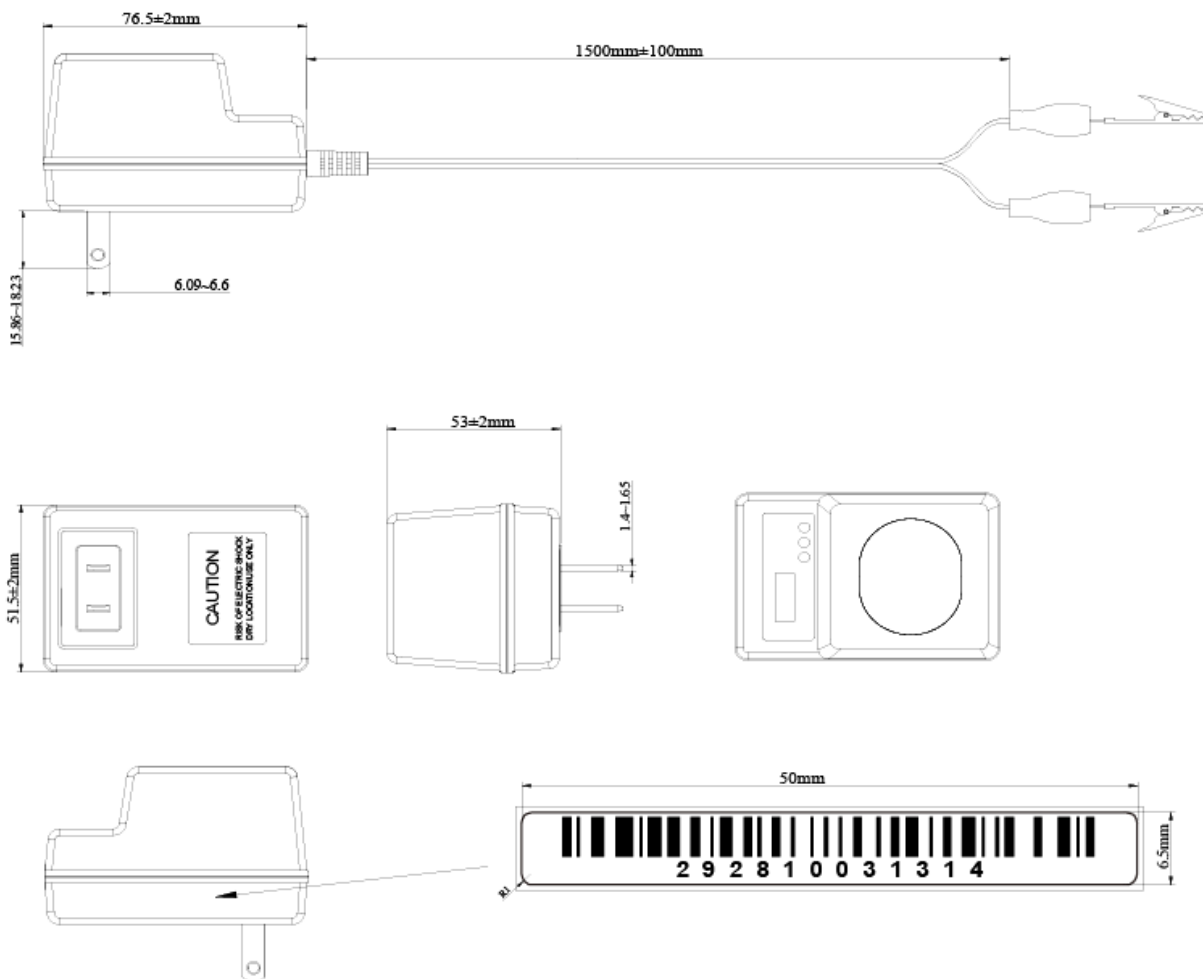
Primary to secondary, 3000Vac/10mA/60s.

7. CIRCUIT DESCRIPTION:

8. MECHANICAL REQUIREMENT:

8.1 Enclosure: BLACK (LEAD FREE)

The power supply size: L:76.5*W:53*H:51.5mm

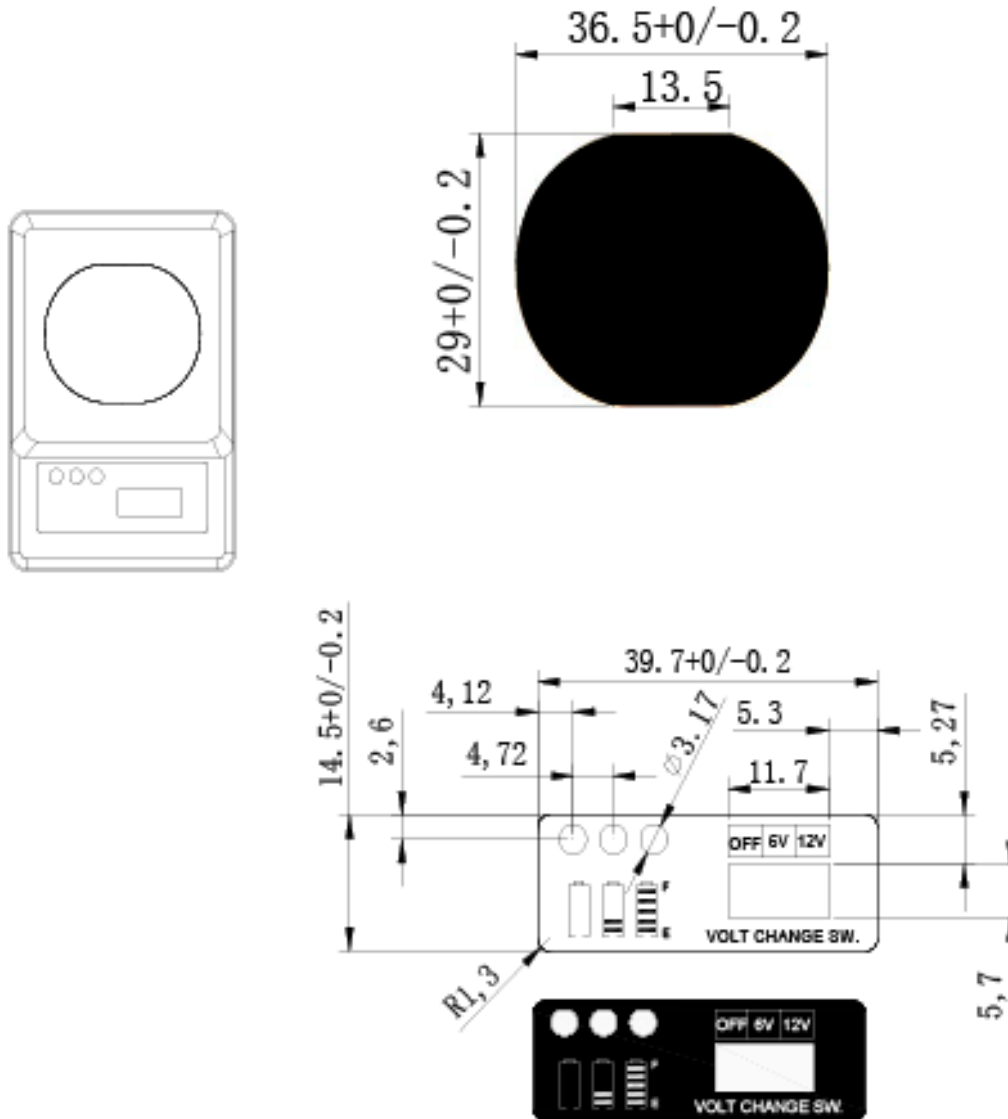


8. 2. DC CABLE SPEC:

UL2468#22AWG 1.5m Black, DC PLUG:2PIN

P1:small alligator clips with protection sleeve (Red & Black)

9. NAME LABEL:



Note:

MATERIAL: 防火 PC 料 Glossy Varnish, Black Sticker with White Text

1.Thickness: 0.4mm ; 2.Thickness: 0.2mm

3M Tape, Temp: 80°C plus, ROHS