



Specification Approval Sheet

Name: smart charger with universal voltage

Model: 01340

SPEC: 11.1V Li-ion or Li-Polymer

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.TenergyBattery.com



1.0 FEATURE

1.1 It is very smart charger with universal voltage;

1.2 It can charge any 11.1V Li-ion or Li-Polymer

battery pack which capacity is more than 2000mAh;

1.3 The charger will cut off automatically if battery is fully charged;

1.4 Led display the charge status,

Red led on ---- in charging

Green led on ----idle or fully charge

2.0 INPUT

2.1 Voltage

Minimum	Normal	Maximum	Unit
100	115/230	240	Vrms

2.2 Frequency

47Hz~63Hz

2.3 Current

1.0A.(MAX)

2.4 Inrush current

115V/40A(max.), 230V/80A(max.) at 25°C at cold start.

2.5 Power efficiency

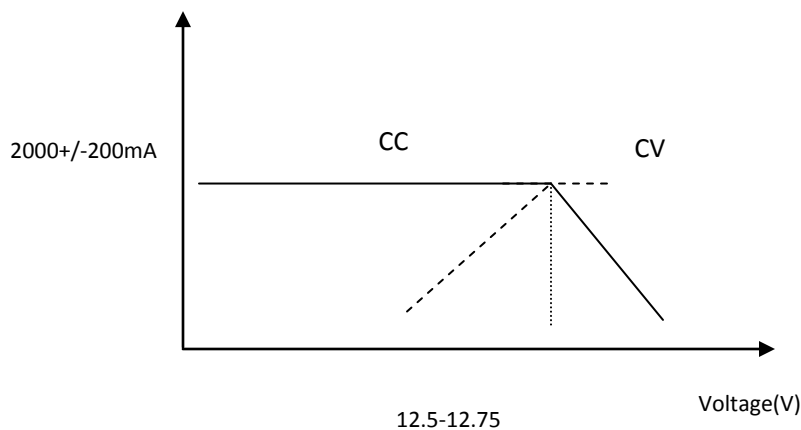
75% (min) at full load, 110Vac or 230Vac 50Hz.



3.0 OUTPUT

3.1 Charge curve

Charger
current(mA)



3.1.1 output voltage:

1. 12.5-12.75V;
2. Led turn green when charging current is about 200mA;

3.2 Led display

Green led on ---- idle or fully charged

Red led on ---- in charging

4.0 PROTECTION

4.1 Over voltage protection

Output over voltage protection with zanier diode.

4.2 Short circuit protection

The output short to ground, it will auto-recovery after remove the error.

4.3 Battery polarity error ptotection

The charger will be no damage if the battery polarity is error.

5.0 HI-POT

5.1 HI-POT

5.1.1 P~S:3000Vac 1Min,the leakage current is lower than 10mA;;



6.0 ENVIRONMENT:

6.1 Ambient operation temperature

0°C to +40°C

6.2 Ambient operation relative humidity

20% to 85%

6.3 Ambient storage temperature

-40°C to +70°C

6.4 Ambient storage relative humidity

10% to 95%

7.0 SAFETY AND EMC:

7.1 Safety

UL1310;CSA22.2;EN60335-2-29,SAA

7.2 EMC

FCC part15,EN55014,C-TICK.

8.0 DROP TEST

8.1 Freely drop the charger to wooden board from the height of 1.2m
for two times per side(front/back/left/right).

9.0 VIBRATION TEST

9.1 Vibration frequency:5-60-5Hz with 10 octave/min@2.1G

9.2 Three circles per axis(X,Y,Z) for 10minutes

10.0 MTBF

40,000 hours base on bellcore TR332 document required at 25°C.

11.0 Outline

11.1.Outline dimension: 120.0L X60.0W X 38.0(H) mm MAX;

11.2.Profile:surface smooth ,no scar and mechanical damage.