



Specification Approval Sheet

Name: Li-ion & Li-Polymer Battery Pack Smart Charger

Model: 01281

SPEC: 3.7-14.8V 1A

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 which cans auto-switching output;

1.2 It can charge any 1~4cells Li-Ion battery pack or Li-Polymer battery pack which capacity is more than 1000mAh;

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

1.4 MCU control the whole charge process and guarantee the battery pack get fully charge, avoid the battery pack over-charge;

1.5 Led display the charge status, red and green led flash for 2 times after supply AC power, then both off, red led on in charging, green led on after fully charge, red led flash in error status or short battery pack.

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.

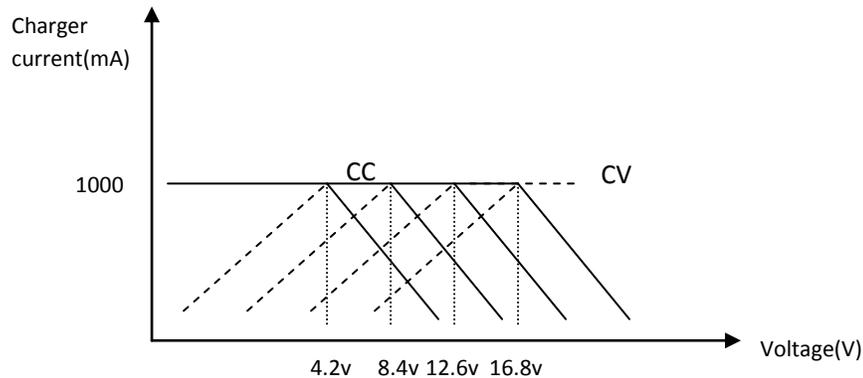
2.5 Power efficiency

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



3.0 OUTPUT

3.1 Charge curve



3.1.1 Auto-switching output voltage:

1. 4.2V \pm 1.5%;
2. 8.4V \pm 1.5%;
3. 12.6V \pm 1.5%;
4. 16.8V \pm 1.5%.

3.2 Led display

Green on --- idle or fully charged

Orange on--- charging

Red led and green led flash for 2 times after power on, then both off

4.0 PROTECTION

4.1 Over voltage protection

Output over voltage protection with zener diode.

4.2 Short circuit protection

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

4.3 Reverse battery connection protection

If battery polarity is error,the unit will no Damage.



5.0 HI-POT

5.1 HI-POT

5.1.1 P~S:1800Vac 3S,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%

6.0 DROP TEST

6.1 Freely drop the wooden board from the height of 75cm for two times per side(front/back/left/right).

7.0 VIBRATION TEST

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

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

8.0 MTBF

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

9.0 Outline

9.1.Outline dimension: 115.0L X 47.0W X 34.0(H) mm MAX;

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