

SPECIFICATION FOR Li-ion&Li-Polymer Battery Pack Smart Charger MODEL NO. : LICH-37-14810



DESCRIPTION	SPECIFICATION				
MODEL NO.	LICH-37-14810		DOCUMENT NO.		
			APPROVED BY	ISSUED DATE	Mar-27-2014
			S.Provost	REV.	A

Revision History

Rev	Description	Date
A0	Original	Mar-27-2014

1.0 FEATURE	4
2.0 INPUT	
2.1 Voltage	4
2.2 Frequency	4
2.3 Current	4
2.4 Inrush current.....	4
2.5 Power efficiency	4
3.0 OUTPUT.....	4
3.1 charge curve	4
3.2 Led display.....	5
4.0 PROTECTION.....	5
4.1 Over voltage protection.....	5
4.2 Short circuit protection.....	5
4.3 Battery polarity error protection.....	5
5.0 HI-POT:	5
5.1 HI-POT.....	5
6.0 ENVIRONMENT:.....	5
6.1 Ambient operation temperature.....	5
6.2 Ambient operation relative humidity	5
6.3 Ambient storage temperature.....	5
6.4 Ambient storage relative humidity	5
7.0 DROP TEST	5
8.0 VIBRATION TEST	5
9.0 MTBF	5
10.0 OUTLINE.....	5

1.0 FEATURES

- 1.1 Very smart charger which has auto-switching output;
- 1.2 Can charge any 1~4cells Li-Ion battery pack or Li-Polymer battery pack in which capacity is more than 1000mAh;
- 1.3 The charger will cut off automatically when battery is fully charged;
- 1.4 MCU controls the whole charge process and guarantees the battery pack gets fully charged. Also avoids battery pack over-charge;
- 1.5 Led displays the charge status, red and green led flash for 2 times after supplying AC power, then both off, red led on in charging, green led on after fully charged, red led flash indicates error status or shorted 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

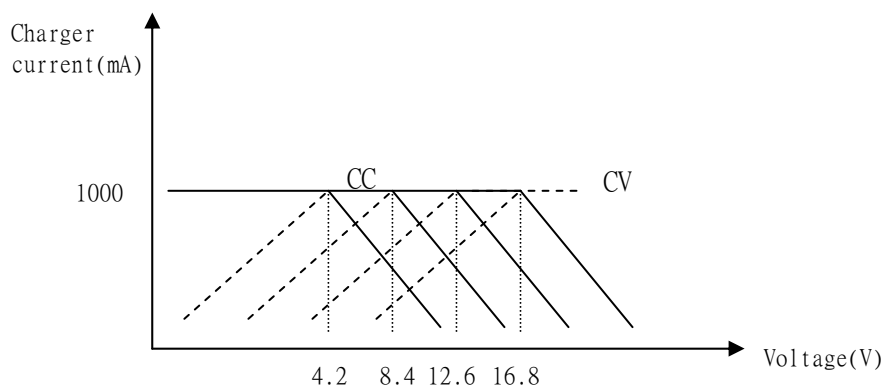
115V/40A(max.), 230V/80A(max.)
at 25°C at cold start.

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 flashes 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-recover after error removal.

4.3 Reverse battery connection protection

If battery polarity is in error, the unit will not be damaged.

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 Drop to a wooden board from a 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.