



备注:

1、单位: mm

2、ABS料: 黑色

■ ABSOLUTE MAXIMUM RATINGS\*

|                                       |                             |
|---------------------------------------|-----------------------------|
| Voltage on Any Pin Relative to Ground | -0.5V to + 7.0V             |
| Operating Temperature                 | 0°C to 70°C                 |
| Storage Temperature                   | -55°C to +125°C             |
| Soldering Temperature                 | 260°C for 10 seconds (SOIC) |

( See IPC/JEDEC Standard J-STD-020A for Surface Mount Devices. )

■ RECOMMENDED DC OPERATING CONDITIONS (0°C to 70°C)

| PARAMETER      | SYMBOL          | MIN | TYP | MAX | UNITS | NOTES |
|----------------|-----------------|-----|-----|-----|-------|-------|
| Supply Voltage | V <sub>in</sub> | 4.5 |     | 5.5 | V     |       |

■ DC ELECTRICAL CHARACTERISTICS (0°C to 70°C; V<sub>in</sub>= 4.5 ~5.5V)

| PARAMETER                                  | SYMBOL                | MIN  | TYP  | MAX  | UNITS           | NOTES |
|--|-----------------------|------|------|------|-----------------|-------|
| I/P Leakage (Tdet)                         | I <sub>LI</sub>       |      |      | +500 | nA              |       |
| O/P Leakage (LED)                          | I <sub>LO</sub>       |      |      | +500 | nA              |       |
| Sourcing current ( LED)                    | I <sub>source</sub>   |      | 10   |      | mA              | @4.0V |
| Sinking current (LED)                      | I <sub>sink</sub>     |      | 10   |      | mA              | @1.0V |
| Battery plug-in Volt. (V <sub>plug</sub> ) | V <sub>plug</sub>     | 0.90 | 1.00 | 1.10 | V               |       |
| Pre-charge Volt. (V <sub>min</sub> )       | V <sub>min</sub>      | 2.90 | 3.00 | 3.10 | V               |       |
| Constant Volt. (V <sub>full</sub> )        | V <sub>full</sub>     | 4.14 | 4.22 | 4.30 | V               |       |
| Voltage of Fast charge current setting     | V(I <sub>set</sub> )  | -    | 2000 | -    | mV              | 1     |
| Voltage of Charge current termination      | V(I <sub>full</sub> ) | -    | 200  | -    | mV              | 1     |
| Re-start Voltage                           | V <sub>re-start</sub> | 3.95 | 4.00 | 4.05 | V               |       |
| Temperature detect                         | V <sub>tmp</sub>      |      | 50%  |      | V <sub>dd</sub> | 2     |

備註: 1.)  $I_{set} = V(I_{set}) * 1600/R_c$ ;  $I_{full} = V(I_{full}) * 1600/R_c$ .

其中 R<sub>c</sub> 為外接於 I<sub>set</sub> 腳位之接地電阻.

其中 I<sub>set</sub>, I<sub>full</sub> 誤差值= +/- 10%;

2.) Temperature Protect, V<sub>tmp</sub> tolerance= +/- 0.1V.



**C E R T I F I C A T E**  
of Conformity  
EC Council Directive 2004/108/EC  
Electromagnetic Compatibility

Registration No.: AE 50146499 0001

Report No.: 15030548 001

Holder: Wu Jiang SPEC LIN Electronics  
Co., Ltd.  
No. 8, Market N. St. , Bache Area  
Songlin Town  
Wujiang, Jiangsu  
P.R. China

Product: Battery Charger  
(Battery Charger for Lithium-ion)

Identification: JL-NP40 JL-NP40-C

Serial No.: n.a.

Remark: Refer to test report 15030548 001 for details.

Tested acc. to: EN 55022:2006  
EN 55024:1998+A1+A2

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2004/108/EC. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.



Certification Body

Cologne, 02.02.2009

Xinhua Lu  
Xinhua Lu

**TÜV Rheinland Product Safety GmbH - Am Grauen Stein - D-51105 Köln**

**CE** The CE marking may only be used if all relevant and effective EC Directives are complied with. **CE**

**C E R T I F I C A T E**  
of Conformity



Registration No.: AK 50146500 0001

Report No.: 15030547 001

Holder: **Wu Jiang SPEC LIN Electronics  
Co., Ltd.  
No. 8, Market N. St. , Bache Area  
Songlin Town  
Wujiang, Jiangsu  
P.R. China**

Product: Battery Charger  
(Battery Charger for Lithium-ion)

Identification: JL-NP40 JL-NP40-C

Serial No.: n.a.

Remark: Refer to test report 15030547 001 for details.

Tested acc. to: FCC Part 15 Subpart B:2007

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Cologne, 02.02.2009



Certification Body

Xinhua Lu  
Xinhua Lu

**TÜV Rheinland Product Safety GmbH - Am Grauen Stein - D-51105 Köln**