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Battery Safety Standard IEC62133 Edition 2.0 published

Subject:

Battery Safety Standard IEC62133 Edition 2.0 published

Key:

IEC 62133 Edition 2.0; IEC 62133:2012; Battery Safety Standard;

Content:

On Dec 06, 2012, International Electrical Committee (IEC) is formally published safety standard IEC 62133 Edition 2.0 for portable secondary battery. IEC 62133 Edition 1.0 published on 2002 will be replaced step by step.

The following revised of Edition 2.0 is compared with Edition 1.0:

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|------------|---|
| Clause 5.6 | Revise Assembly of Cells into Batteries and add Design Recommendation for Lithium Systems Only. |
| Clause 6 | Distinguish test requirements of Lithium Systems and Nickel Systems. |
| Clause 8 | The following revision of test Requirements of <ul style="list-style-type: none"> ◇ Lithium Systems: Add charge procedure under upper and lower limit of charging temperature (Sub-clause 8.1.2); ◇ Add Transport Tests (Sub-clause 8.3.8), Forced Internal Short Test (Sub-clause 8.3.9) and Over-charging of batteries (Sub-clause 8.3.6); Vibration, Mechanical Shock and Low pressure test merge into Transport Tests (Sub-clause 8.3.8); ◇ Modify Continuous Charging Test at Constant Voltage (Sub-clause 8.2.1), External Short Circuit Test of Batteries ((Sub-clause 8.3.2), Thermal Abuse Test ((Sub-clause 8.3.4), Crush Test |

电池安全标准IEC62133第二版正式颁布

主题:

电池安全标准IEC62133第二版正式颁布

关键字:

IEC62133 第二版; IEC62133:2012; 电池安全标准;

内容:

在2012年12月6号, 国际电工委员会正式颁布了便携式二次电池安全标准IEC62133的第二版本。2002年颁布的IEC62133第一版本将逐步被新标准取代。

第二版标准和第一版标准相比有以下重大的修订:

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| 章节5.6 | 修订了电池包里用电芯的装配要求, 增加了锂系电池的设计推荐内容; |
| 章节6 | 锂系电池和镍系电池测试要求分别列出; |
| 章节8 | 锂系电池的测试要求有以下修改: <ul style="list-style-type: none"> ◇ 增加了上限下限的充电程序(章节8.1.2) ◇ 增加了运输安全测试(章节8.3.8), 强制内部短路测试(章节8.3.9), 电池包过充测试(章节8.3.6) 振动, 机械冲击和低气压测试并入了运输安全测试里(章节8.3.8); ◇ 修改了恒压连续充电测试(章节8.2.1), 电池包外短路测试(章节8.3.2), 热滥用测试(章节8.3.4), 挤压测试(章节8.3.5); |

- ((Sub-clause 8.3.5);
✧ Delete Over-charging of cells

- ✧ 删除了电芯的过充测试

Please inform manufacturer the design of batteries should be considered according to standard IEC 62133 Edition 2.0 in order to avoid non-compliance with standard IEC 62133 Edition 2.0 during further testing.

请制造商在电池设计时也要考虑IEC62133第二版的测试要求，以避免在后续的测试中出现和IEC62133第二版要求不符合的情况。

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