



In this month's update:

January 2013

- TEST NAVI REPORTS

Release of the report for

- **Impact Assessment in Safety Testing of Lithium-Ion Secondary Battery** [Click Here](#)

The thermal run-away process of a lithium-ion secondary battery, and the effects of safety systems on a chamber in battery testing.

- **Humidity Measurement and Control in the HAST** [Click Here](#)

- **Great Expectations for the Combined Environmental Reliability Test (CERT)** [Click Here](#)

- **Estimation method for temperature uncertainty of temperature chamber (JTM K 08)** [Click Here](#)

- **The effect of ramp rate on temperature cycle fatigue in solder joints** [Click Here](#)

- **Factors leading to ionic migration in lead-free solder** [Click Here](#)

- RESEARCH – TEST HANDBOOK

Definition and Test Standards of HAST (Highly Accelerated Stress Test) [Click Here](#)

HAST is the accelerated humidity-resistance testing. Compared to high-temperature/high-humidity testing (at 85°C/85% RH), HAST causes more component contact due to moisture-driven corrosion and more insulation deterioration. The most common HAST-related test standards and the concept of relative humidity are explained in this test handbook. Test Navi report "Humidity Measurement and Control in the HAST" is also released.

- CASE STUDY

Potential Induced Degradation of Crystalline - Silicon Photovoltaic Modules evaluation and standard [Click Here](#)

- PRODUCT NEWS

Good design award:

[Click Here](#)

Platinous J Series, one of our core products won the Japan Institute of Design Promotion's Good Design Award for 2012.

<Product information>

<http://www.espec.co.jp/english/products/env-test/pi/index.html>



- EVENT/SEMINAR

ESPEC's worldwide exhibition schedule for 2013 [Click Here](#)

- TEST METHOD DOWNLOAD

Environmental Test Standards for Platinous J Series Pattern Manager Lite Test methods download.

ISO 16750 for Road vehicles, IEC for PV, IEC for Environmental testing, etc. [Click Here](#)

- COMING SOON! SPRING 2013

New service through product registration will start from spring 2013.

Register your products to gain benefits such as software upgrade of our network features, etc.