

Thermal Hazard Technology E-Newsletter November 2010 Battery Applications



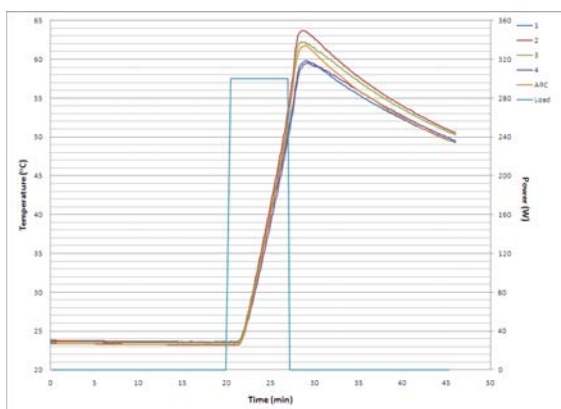
New downloadable information

The THT website is regularly updated with new material. Register to access and download all the information.

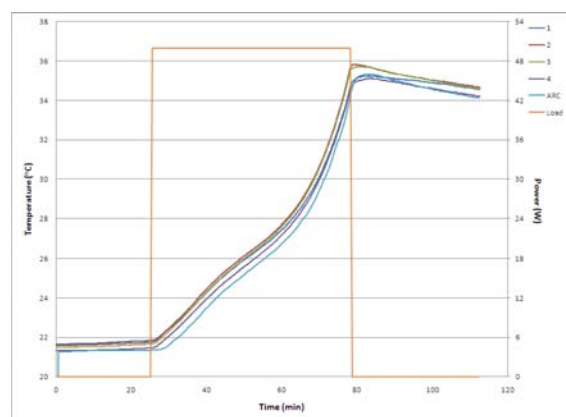
New this month: [Presentation on EV-ARC applications](#)

As presented by Jeff Rachford at Battery Safety 2010 in Boston, MA.

The presentation and the poster contain new data on battery charging and discharging tests carried out in the ARC. A Dynaload electronic load instrument was used in combination with the EV ARC to obtain data on the heat output of large batteries during fast discharging. A maximum discharge rate of 200W was used on a 8Ah lithium iron polymer battery. Not included in the report were discharge tests on 15Ah cells of a similar chemistry. These can be seen below:



300W - 41°C Temp Rise



50W - 14°C Temp Rise

The presentation also covers many other applications of the EV ARC, from safety testing to thermal management.

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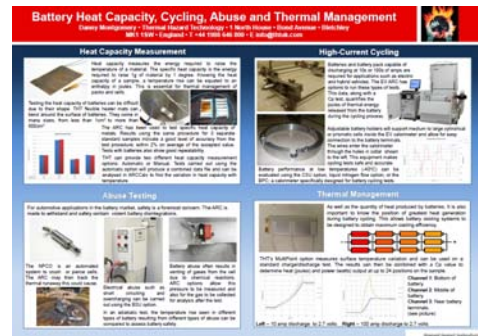
Also new:

[Internal Clamp & Collar Kit Flyer](#)

Contains information on the clamp and collar kit for the EV calorimeter. For safe and easy cell charging and discharging at 30 amps or greater



[THT poster on EV-ARC applications](#)



Speed-controlled Nail Penetration and Crush Option

Improving on the existing NPCO design, the speed-controlled system allows the ARC user to set the crushing or piercing rate of the piston (up to 30 cm/second). The NPCO equipment is built into the side of the calorimeter to enable horizontal crushing and piercing on large prismatic or cylindrical cells. This also saves on space, leaving more room inside the calorimeter for large batteries.



- [Download the Nail Penetration & Crush Option Note](#)

Further Web-Based Info - ARC Battery & Chemical Kits



[SBK](#)



[BSK](#)



ARC Spares

Spares kits for the ARC contain the equipment required to carry out more specialized testing on a range of unique samples. Notes on each kit are available on the [THT website](#). Register for full access.

To request further info on the EV ARC, [visit this link](#).

Forthcoming Meetings

THT will be exhibiting at AABC-11 The 11th International Advanced Automotive Battery Conference 24-28 January 2011 - Pasadena, California - USA

- [Conference Website](#)

thermal hazard technology