

# Re: sealed (air tight) rechargeable battery technology

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.design/2005-05/msg00183.html>

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- *From:* Ian Stirling <[root@xxxxxxxxxxxxxxxxxxxx](mailto:root@xxxxxxxxxxxxxxxxxxxx)>
  - *Date:* 02 May 2005 09:33:10 GMT
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Ken Smith <[kensmith@xxxxxxxxxxxxxxxxxxxx](mailto:kensmith@xxxxxxxxxxxxxxxxxxxx)> wrote:  
> In article <426e9d1f\$0\$83051\$ed2619ec@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>,  
> Ian Stirling <[root@xxxxxxxxxxxxxxxxxxxx](mailto:root@xxxxxxxxxxxxxxxxxxxx)> wrote:  
> [... batteries in nasty environment ...]  
>  
>>Actually, lithium works quite well for this.  
>>The lower the average charge state is, the greater the cells life.  
>>As long as you have proper control, and don't overdischarge (under 3V)  
>>or overcharge (more than 4.2/43V), and match the cells right, lithium  
>>could be a fairly good match.  
>>  
>>Cost is of course a problem.  
>  
> The Lithiums I was looking at didn't like the cold and yes were very  
> costly.

AIUI, only charging at very low temps is a problem.

> I could also never get it on paper that they had solved the "exploding in  
> flames" problem on the higher power ones. I could for the smaller ones  
> though.

As long as you don't screw up on the charge control, or overheat them by packing too densely, or not taking care of temperature and charging, or discharging, they are fine.

> In the end SLAs just looked like the right one to pick.

Still good, in many cases.  
Annoyingly heavy in many others though.

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- *Follow-Ups:*
  - ◆ ***Re: sealed (air tight) rechargeable battery technology***  
◇ *From:* Mark W. Lund, PhD

Re: sealed (air tight) rechargeable battery technology

◆ **Re: sealed (air tight) rechargeable battery technology**

◇ From: Ken Smith

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