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**From:** jeffrey E. <jeevacation@gmail.com>  
**Sent:** Friday, June 22, 2018 9:29 PM  
**To:** Richard Kahn  
**Subject:** Re: GSJ Prosolar circuit boards

why only now? this corosion is quite far along <=div>

On Fri, Jun 22, 2018 at 11:26 PM, Richard Kahn <[REDACTED] <mailto:[REDACTED]>><span> wrote:

today i spoke with Brad, Brian and Dan from Prosolar

Acquion intellectual property was purchased by Blue Sky Energy (they believe Chinese owner with engineering operation based in Europe) (Germany?)

Blue Sky Energy was a competitor of Acquion and was=very popular in 2015 and 2016. They were financed by bill gate= and kleiner perkins (see link below)

Acquion focused on salt wa=er batteries which have become out of favor as Tesla has made Lithium Ion =atteries the most current and frequently used solution for solar

On GSJ what failed was our 100 Series Circuit board w=ich he currently have 12

Each of our 12 battery stacks have a 10= Series circuit board which are not sold separately and are no longer prod=ced by Blue Sky

currently 5 of 12 are in really bad shape and 7 =re still functioning but need to be cleaned up

Prosolar said tha= this damage occurred due to salt water which made these compromised post =urricane when the door of the quinset hut came off..

I was tough=and asked why are we only now hearing about this 9 months after hurricanes=if they were doing monthly service calls..

I also informed=pro solar that their invoice says that warranty is either 3 or 5 years..</=iv>

Prosolar tried to source these boards via wholesale=s with very little success as they have all been purchased I ask=d if we can use other company circuit boards and they replied no..

Blue Sky Energy engineers (see email below) believe that =hese boards are not needed and their recommendation is to =i pass boards and change parameters and settings of other equipment

<=iv>

Prosolar now believes that all other issues they struggled wi=h were related to these boards...and that system will work better wi=htout circuit boards

I asked if Blue Sky could do work with Prosolar an= was told they are not available for contract but their engineers would wa=k Dan through the work..

darren is scheduled to s=peak with glidden monday 9:30am and then write legal letter  
pleas= advise on next steps..  
thank you

Richard Kahn

HBRK Associates Inc.  
575 Lexington  
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<https://www.greentechmed=a.com/articles/read/aquion-the-bill-gates-and-kleiner-perkins-funded-advanced-battery-startup#gs.KpS4PR4> <<https://www.greentechme=ia.com/articles/read/aquion-the-bill-gates-and-kleiner-perkins-funded-adva=ced-battery-startup#gs.KpS4PR4>>

Begin forwarded message:

From: <[REDACTED]> <mailto:[REDACTED]>><=r>  
Subject: FWD: Re: AW: circuit boards

Date: June 22, 2018 at 3:13:5= PM EDT

To: </=pan>"Richard Kahn" <[REDACTED]> <mailto:[REDACTED]>>

FYI

----- Origina= Message -----

Subject: Re: AW: circuit boards  
From: "Dan Chrisman" <a href="mailto:[REDACTED]">  
target=\_blank><[REDACTED]>  
Date: 6/22/18 11:26 am  
To: "Stefan\_Schlägl" <[REDACTED]> <mailto:[REDACTED]>  
<[REDACTED]>  
Cc: "Brian Walden" <[REDACTED]>, "Lyle Gold" <[REDACTED]>  
<mailto:[REDACTED]>, "Th=mas Krausse" <[REDACTED]> <mailto:[REDACTED]>  
<mailto:[REDACTED]>, [REDACTED] <mailto:[REDACTED]> > "=<[REDACTED]>  
<mailto:[REDACTED]>>

On our Origonal install we bypassed that contactor becaus= we did not require a emergency stop. how does that bypass the circuit boa=d to eliminate the BMS?

On Wed, Jun 20, 2018 at 3:41 AM Stefan Schlägl <[REDACTED]> wrote:

Hi Dan,

<=span>

yes, that's correct=

Under to top=plastic cover of the M-Line you will find near the positive battery pole a=contactor. The only thing you have to do is to change position of the red =iring according to the attached picture.

Kr=/p>

Stefan

</=pan>

Von: Dan Chrisman [mailto:[REDACTED]</=>]

Gesendet: Montag, 18. Juni 2018 19:15

Brian Walden <[REDACTED]<mailto:[REDACTED]>>

Cc: Lyle Gold <[REDACTED]<mailto:[REDACTED]>>; Stefan

Schlägl <[REDACTED]>; Thomas Krausse <[REDACTED]>  
<mailto:[REDACTED]>>;

Betreff: Re: AW: circuit boards

Good afternoon, seems like our best option to b=pass the boards. Do you have a basic schematic for this?

On Thu, Jun 14, 2018 at 6:33 PM Brian Walden &lt;[REDACTED]

<mailto:[REDACTED]>> wrote:

Excellent news Stefan. Thank you for the email.=C2

Dan is headed over to the site next Tues.. I ho=e to connect you two beforehand and possibly while he's onsite. Th= existing array consists of SMA Sunnyboy inverters and Sunny Island contro=lers.

Dan, please reach out to Stefan when you get back from St.Martin.

Regards, </=>

Brian Walden  
ProSolar America, DOO  
c.=[REDACTED]<tel:[REDACTED]> </=>

On Jun 14, =018, at 5:12 PM, Stefan Schlägl <[REDACTED]>  
<mailto:[REDACTED]> wrote=

Hi Brian,

hello Lyle,

<=iv>

I'm sorry for my late replay.

Yes, it is possible to bypass the circuit board within the M100. We've also done this several time because=as Lyle mentioned already the modern inverter technology is good enough to=manage this.

If you need help regarding bypassing the PCB please let us now.

=/span>

Kind regards

Stefan

Von: Lyle Gold  
<=trong>Gesendet: Donnerstag, 7. Juni 2018 23:54

An: [REDACTED] <mailto:[REDACTED]>  
Cc: Dan Chrisman [REDACTED] />; [REDACTED]  
<mailto:[REDACTED]>; Thomas Krausse <mailto:[REDACTED]>  
<mailto:[REDACTED]>; Stefan=Schlägl <mailto:[REDACTED]>

Hi =rian,

=/span>

First of all, thank you for=contacting us. Did you try calling me today? I'm sorry I w=sn't able to answer. Please feel free to call back, I'll keep my m=bile phone handy. I don't think there's much support to=be had at Aquion or the Chinese buyer of the assets. We still have some Aq=ion stacks left in stock (and continue to sell, service & warranty the=), but we have for the most part switched to the Aquion competitor we met =several years ago. We feel that their saltwater battery is more advanc=d and higher quality. They now have at least one of the Aquion Engineering=leadership working for them. Their batteries are also higher energy densit=. I have attached a datasheet.

Ge=ting back to the BMS on top of the old M100s, unfortunately we sold our la=t one I believe. I have copied Dr. Thomas Krausse and Stefan Schlaegl on t=is mail to fact-check everything I say.

We have been building systems without that particular BMS for severa= years. We find that the functionality these days in the inverters and oth=r power management equipment on the market is more than adequate to manage=12 or more stacks. And I believe in some cases you can simply bypass=that board.....Stefan is that right?

One thing you could do would be to disassemble the five=M100s and individually check the quality of each stack and get rid of the =utliers. The remaining 'good' batteries could then be config=red with either the existing charger(s) and inverter or new components as =eeded. This would take some amount of expertise and effort.</=>

Regards,</=>

Lyle Gold

VP International Business Development

Fornacher Strasse 12

<<https://maps.google.com/?q=Fornacher+Strasse+12+=0D%0A+%0D%0A+%0D%0A+4870+Voecklamarkt+.+Austria&entry=gmail&sourc=e=g>>

4870 Voecklamarkt . Austria

<<https://maps.google.com/?q=Fornacher+Strasse+12+=0D%0A+%0D%0A+%0D%0A+4870+Voecklamarkt+.+Austria&entry=gmail&sourc=e=g>>

<image001.png>

=A0

Tel: [REDACTED]

Office: [REDACTED]

Mail: [REDACTED] <mailto:[REDACTED]>

Web: <<http://www.bluesky-energy.eu/>>

Skype: Idaho\_austria

<image002.png>

The Safest and Most Environmentally-friendly Battery in the World!

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<[REDACTED]>

From: [REDACTED] <mailto:[REDACTED]>

Sent: Thursday, June 7, 2018 11:20 AM

<strong>To: [REDACTED] <mailto:[REDACTED]>

energy.com> ; Lyle Gold

<mailto:[REDACTED]>

Cc: D=n Chrisman; [REDACTED]

Subject: circuit boards

Good Afternoon,

=A0

I'm hoping you can answer my question about the availability of circuit boards or controls mounted to the top of the Aquion M110-LS=3 or a M110-L083. We have 5 installed on a remote island and these have=severe corrosion but still have some functionality.

Any assistance in this matter is greatly appreciated.=/p>  
=A0

Regards,

=A0

Brian Walden

ProSolar America. LLC

Director of Operations

[REDACTED]

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plea=e note

The information contained in this communication is  
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