

Are electrodacus sbms40/60/100/120 batteries prone to a failure mode?

The ElectroDACUS SBMS40/60/100/120 models, incorporating the switching electronics in the control unit, are susceptible to such a failure mode - those units must first have both PV and load removed before they can be disconnected from the battery.

What is a smart BMS & solar charge controller?

It's a combined smart BMS and solar charge controller capable of managing up to 8S configs of lithium cells while allowing connection to the battery of PV panels (at battery voltage) up to 40A of current, subject to the unit being mounted on a suitable heatsink to dissipate 8W of thermal energy.

Is there a 3D Brothers edition of electrodacus sbms40?

I've received one of the new "3D brothers edition" ElectroDACUS SBMS40s from the prototype batch, as offered forum members for review purposes recently by Alex Gradea.

What is a sbms0 battery management system?

The SBMS0 system is a little different to some all-in-one Battery Management Systems (BMS) that incorporate the control and power connect/disconnect within the one unit.

What is sbms0?

The SBMS0 is a novel approach to managing solar-powered energy storage, produced by ElectroDACUS as an open-source hardware (CC BY-SA 3.0) project (as of mid 2020 some hardware details such as PCB layout and the software source code are not yet published).

Why is my electrodacus not balancing?

So you need to cycle power on the BMS to get whatever that flag is cleared and the updated parameters saved in the BMS chip. If you don't do this after changing Parameter Settings or Advanced Parameter Settings, the ElectroDACUS won't balance.

The supported BMS are working with passive balancing, mechanical contactors etc. vs. Hankzor / Daly which are working with modern MOS, they can select between switch charge and discharge current, have active balancing functions and Smart APPs working out of the box. For those BMS it is necessary to use third parts drivers and hours of trial and ...

There are also several other benefits that using the electrodacus BMS provided for my particular set of requirements. Again, my issue is not that there isn't pros and cons. It is the characterization that my approach is "a LONG way from ideal" with no consideration that it meets a different set of requirements that are not applicable to your ...

The SBMS0 is an innovative BMS created by Dacian Todea "ElectroDacus" Manual has been updated to "V03D" Here is the old version... Forums. New posts Registered members Current visitors Search forums Members. ... Electrodacus SBMS0 Manual SBMS0 v03d (new 2020 version) Go to download. Author Dzl; Creation date Apr 20, 2020; Overview ...

Onto the extio from electrodacus as well as the BMV712. So that the BP220 load bus is on the electrodacus closed contact (extio load stays closed till 12.pV in my case, LCV 3.0V) and in series contacteds als BMV stays closed till 10V contact. Same to charge side. A smart BP220 cannot disconnect an inverter.

yes. I am in process of assembling the Electrodacus SBMS0 system. I will be using a pair of 10 gauge wires from each set of 2 60cell 250watt panels to the Electrodacus SBMS0, 20 of the Electrodacus DSSR20 via the ...

If you just need a BMS that balances, than all of the above BMSes will work (passive (resistive) balancing) One BMS that may meet your needs (as written) is the Heltec BMS, I don't recall if it is available for 24v or just 48v but it is a true active balancing BMS and I believe is rated at 200A maybe higher.

As the electrodacus has so tiny wires in a lightning strike they will act as fuse and protect the BMS, so likelihood is high after connecting new cables it works again, no chance with mosfet BMS. But because alternator is cut at 95%SoC by BMS and solar does 13.8V and then 13.5V the bank doesn't reach the charge cutoff points of BMS in normal ...

You can read more about the Solar BMS (SBMS) from the builders site, but it's enough to know that this BMS was part of a kickstarter and from what I can tell is not as well known, but that's not for lack of features. I have also purchases the DSSR20 modules from the same site as an alternative to using a traditional charge controller (MPPT).

I am looking to upgrade at a later date to use the Electrodacus SMBS0 as my BMS for the Tesla module as it offer full automation for low voltage cut of and over charge protection at the individual cell voltage for much better protection as well as active cell balancing during charging.

This finally helped me visualize everything needed in a setup with an electrodacus bms. I have 8 280ah eve cells on the way and am trying to select a bms. I have a victron multiplus 3000 and mppt as well as a venus GX controller running now with a single 12 v 300 ah lithium battery, that I intend to replace with the 8 eve cells. ...

Has anyone succeeded in decoding the text string sent from the UART on an Electrodacus SBMS (appears on pins 1& 2 of the 10 pin header connector if onboard wifi is disabled)? ... Charging the cell independently outside of the BMS might recover it #define ECCF 0x800 // Bit 11 EEPROM fail. #define CFET 0x1000 // Bit 12 charge FET active. Not an ...

Blue Sea ML-RBS ElectroDacus BMS Driver Circuit Experiment. Thread starter Danny; Start date Jul 23, 2020; Danny Solar Enthusiast. Joined Sep 21, 2019 Messages 223. Jul 23, 2020 #1 Another Blue Sea ML-RBS Circuit Experiment. In this video, I make a modification to the very simple and brilliant SY Destiny circuit in order to interface with the ...

Lots of great information in this slightly wandering thread. To circle back to the starting point- the need to use contactors with the ElectroDacus SBMSO BMS device, it seems for marine users, yes we need that disconnect. The proper implementation of ElectroDacus is significantly more complex and a bit more expensive than with most other BMS.

The ElectroDacus BMS uses separate charge and load shunts, making the two bus configuration the natural choice. I don't have a combi inverter/charger on board, perhaps Rivet can offer opinion here? ElectroDacus will switch the device off when needed. Crap. You are right. I'm about 90% settled on the "Dacus, and have sketched out probably 90% ...

I've noticed my ElectroDacus BMS doesn't set SOC to 100% even when the criteria for End of Charge are met. I've only seen it get as high as 91%. How does it determine SOC? ****Update, I read the beginners guide more carefully. Apparently Over Voltage setting for duration of "Over Voltage Delay" triggers the 100% SOC****

So this electrodacus controller will not work to well with a battery that might have balancing issues, it will charge it but once a cell reaches a high point it will stop fast charging. What I found out, if you use "active balancers", all you need is the controller to control everything, the overvoltage relay and battery BMS can be the last ...

Web: <https://worldtheologicaluniversity.co.za>

