

# BatteryMINDer®

## INSTRUCTION MANUAL

Models SCC1224

&

Aviation Models SCC1224-AA-S2, SCC1224-AA-S3 & SCC1224-AA-S5

SOLAR CHARGER – MAINTAINER – DESULFATOR

WITH TEMPERATURE COMPENSATION FOR USE WITH

20 WATT SOLAR PANEL



READ AND SAVE THESE INSTRUCTIONS

[www.BatteryMINDer.com](http://www.BatteryMINDer.com)

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Please read these simple instructions before making any attempt to permanently or temporarily install your **BatteryMINDer®** SCC1224 Solar Charger – Maintainer – Desulfator controller and solar panel.

## **OVERVIEW**

**Note:** Your battery(s) needs to be in “good” condition to gain the full benefits from your **BatteryMINDer®** Solar Charger – Maintainer – Desulfator. By “good” we mean no shorted cells, and a “rested” voltage of a minimum 8.50 volts for a 12 volt battery (17 volts for a 24 volt battery). Your solar panel must be oriented in a direction that will ensure maximum exposure to the Sun. The solar controller must be mounted in an area where it can be easily seen, protected from the elements (direct rainfall) and bright sunlight (where it would be difficult to see the 3 LED status indicators). It is important that the controller is in the same general temperature environment as the battery(s). The built-in temperature compensation lowers the charging voltage when the environment is too hot - to prevent out gassing. It raises the charging voltage when the environment is too cold - to keep the battery fully charged. An extension is available for a remote temperature sensor (VDC Electronics P/N ABS-248).

## **MOUNTING INSTRUCTIONS**

Use the already attached velcro adhesive pad to either temporarily or permanently mount the controller. This will allow you to change its location, should you ever wish to, without leaving holes behind. You may also use the screw holes provided.

Connect output wires from the solar panel to the solar controller by twisting wires together and using the correct wire nut (included). Be careful to observe correct polarity. Do one wire at a time. Do not have solar panel exposed to sunlight while wiring. Cover solar panel to avoid electrical shock hazards. Do not touch wires together. Connect cord set with ring terminals supplied (RTA-2415) or battery clamps (BCAA-2415) to battery terminals. Observe polarity indications on ring end of wires:

**RED** = + (POSITIVE) **BLACK/BLUE** = - (NEGATIVE)

**Note: Never try to use your SCC1224 solar controller with any other solar panel in excess of 20 Watts total. Doing so will burn out your controller and void your warranty and guarantee.**

## **BATTERY CONDITION INDICATOR**

Your battery condition indicator (BCI) will give you a quick indication of your battery(s) state of charge-condition. By properly using your BCI you can determine whether your battery needs to be charged, is not holding its charge, or needs to be desulfated.

## **TESTING BATTERY**

Press the area on the face of your BCI in raised area marked PUSH.

- If all three (3) LEDs light (**RED**, **YELLOW**, **GREEN**) your battery is “good” = fully charged = 12.5 – 13.2 volts on 12 volt battery (25.0-26.4 volts on a 24 volt battery).
- If only the **RED** and **YELLOW** LEDs light your battery is “fair” condition = 12.0-12.5 volts on a 12 Volt battery (24.0-24.0 volts on a 24 volt battery).
- If only the **RED** LED lights your battery is in “poor” condition = 11.5-12.0 volts on a 12 volt battery (23.0-24.0 volts on a 24 volt battery).

**IMPORTANT NOTE:** Fused lead (located on the positive lead of battery connector): ATC 3 blade type 15 Amp rated. **DO NOT ATTEMPT TO BYPASS OR REPLACE WITH HIGHER RATED FUSE; SERIOUS DAMAGE WILL OCCUR.**

## **FREQUENTLY ASKED QUESTIONS:**

- Q: Can the Solar **BatteryMINDer®** be used to charge, maintain, and desulfate any size or type lead acid 12/24 volt battery, such as sealed gel, AGM, deep cycle, marine, maintenance free electrolyte?
- A: YES. **BatteryMINDer®** can charge, maintain, and desulfate any type size 12/24 Volt non-aviation lead acid battery, regardless of construction or brand.
- Q: Can the Solar **BatteryMINDer®** be used to maintain and desulfate more than one battery at a time?
- A: YES, but remember the limitation of the solar panel will determine how much current output your Solar **BatteryMINDer®** can supply to the battery. Normally 2 parallel connected medium sized (automotive type) batteries can be maintained if they are in

good condition (no shorted cells). The batteries must be of the same type (sealed gel, AGM, deep cycle, marine, or maintenance free) and same size (electrical capacity, i.e. amp-hours).

Q: Why do the solar LED indicators turn off and then suddenly turn on seconds later?

A: When the Sun goes behind a cloud the solar controller shuts down in order to prevent the battery from being discharged due to low or no solar energy. As soon as sufficient solar energy is detected by the solar controller, the LED indicators turn on again and unit resumes its function as a charger-maintainer-desulfator.

Q: Why doesn't the GREEN LED start blinking immediately after low solar shut off, when just before the LEDs turned off the GREEN LED was blinking.

A: For the GREEN charge power LED to blink, the unit must first charge a 12 volt battery to approximately 14.2 volts (24 volt battery to 28.4 volts. Once it reaches this voltage the unit automatically switches to a lower float-maintenance level where it holds the battery's voltage at approximately 13.4 volts on a 12 volt battery (26.8 volts on a 24 volt battery). For the GREEN LED to start blinking the unit must first charge the 12 volt battery again to the 14.2 volt (28.4 volt level on a 24 volt battery). This can take from several minutes to several hours depending on the battery size and the amount of solar energy hitting the solar panel.

**Guarantee and Warranty Policy**

For All Replacements, Returns or Repairs covered by Guarantee or Warranty please call **1-800-379-5579 x6 (631-423-8220 x6)**, M-F, 9 A.M. – 5 P.M. (ET) to speak with a technician. Have your unit available when you call. We will ask you for:

<b>Your contact information</b>	<b>Serial Number</b>	<b>Proof of Purchase</b>
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**90 Day Unconditional Money Back Guarantee.**

We are committed to providing superior products to our customers. We are confident you will be satisfied but if our product falls short of your expectations we will refund your purchase price. No questions asked - 100% unconditional money back guaranteed if purchased on our website. Returns are accepted within 90 days after purchase. Refunds are not applicable to any items that are damaged due to reasons not covered by warranty. Customer will return product to VDC Electronics, Inc. at their expense.

**Five-year Limited Warranty**

This Limited Warranty covers your **BatteryMINDer®** Solar Charger for a period of five years and the Solar Panel for two years from the date of original purchase against defective material and workmanship. Defects reported during the warranty period will be subject to inspection by a VDC Electronics technician and repaired or replaced at their discretion. Replacements will be new or like-new, similar in performance and functionality to the original part.

We make no warranty other than this limited warranty and expressly exclude any implied warranty including any warranty for consequential damages. This warranty is not transferable. This warranty does not cover damages caused by the owner.

If you must return the unit, the technician will give you a Return Merchandise Authorization Number (RMA #) and shipping instructions. Unit must be returned freight prepaid together with proof of purchase directly to VDC Electronics.

VDC Electronics  
155 West Carver Street, S  
Huntington, New York 11743

Once we receive the unit it will be repaired or replaced and shipped back to customer, all at no charge, provided unit is within the Five-Year Warranty period. Expedited shipping is available at extra cost. Anyone outside the contiguous USA purchasing any of our products must be aware that all shipping costs in sending and returning of a product for warranty repair or replacement regardless of cause, will be borne by the purchaser not VDC Electronics, Inc. or any of its resellers.

Please register your unit online within 10 days of purchase on **[www.batteryminders.com](http://www.batteryminders.com)**. Due to ever-changing technology associated with this **BatteryMINDer®** unit, we may be unable to keep you apprised of significant upgrades, changes, etc. without your registration. The information you provide upon registration will be used to keep a record of your purchase and will assist in providing support should you ever need to contact our Technical Support department: [techsupport@vdcelectronics.com](mailto:techsupport@vdcelectronics.com); 1-800-379-5579 x6 (631-423-8220) M-F 9-5 (ET).

**REGISTRATION**

Please register your unit on-line at [batteryinders.com/registration/](http://batteryinders.com/registration/) within 10 days of purchase. Customers who have purchased DIRECTLY from us are AUTOMATICALLY registered.

Due to ever-changing technology we may be unable to keep you informed of significant upgrades, changes, etc. without your registration. The information you provide upon registration will be used to keep record of your purchase and will assist in providing support should you ever need to contact our Technical Support department: 1-800-379-5579 x6 (631-423-8220)

**BatteryMINDer®** Solar Model

SCC1224

SCC1224-AA-S2

SCC1224-AA-S3

SCC1224-AA-S5

Serial Number:

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Place of Purchase:

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Date of Purchase:

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FOR MORE INFORMATION ABOUT **BatteryMINDER®** PRODUCTS,

VISIT US ON OUR WEBSITE AT [www.batteryminders.com](http://www.batteryminders.com)

OR

