

COMPANION[®]

TRUSTED SINCE 1941

20A PWM SOLAR CONTROLLER

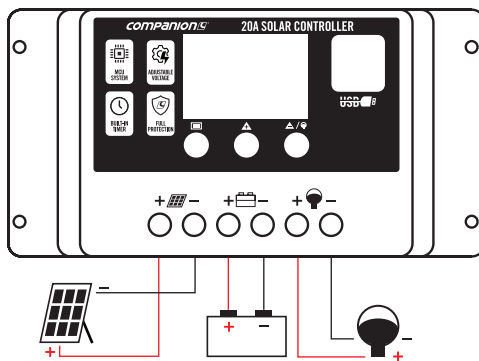
COMPATIBLE WITH LITHIUM BATTERIES



OWNERS MANUAL

Part No. 10000168

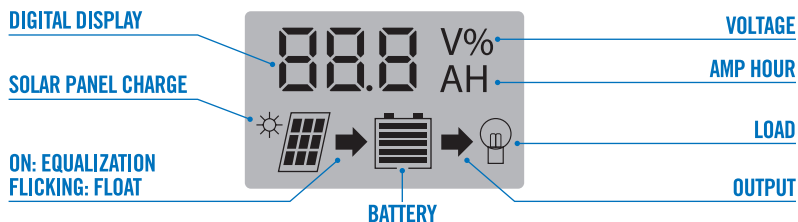
UNDERSTANDING YOUR CONTROLLER



MENU

UP

DOWN / ON / OFF



MENU: Long press to switch between different displays or to enter /exit settings

UP: Press to increase value

DOWN: Press to decrease value (Press and hold to turn the controller on/off)

CONNECTION

Connect solar panel to centre connection (see solar panel printed on controller)

Connect battery to L/H connection (battery printed on controller)

This solar controller has a 20A rating, it will allow up to 20A per hour to flow into a battery if required

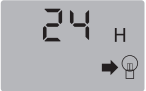


MENU & FUNCTIONS

Step 1. Press “MENU” to browse the different settings

Step 2. For screens 2 to 5, press and hold the menu button for up to 5 seconds to change the settings on the screen. When the numbers flash, press the “UP” and “DOWN” buttons to adjust the values

Step 3. Press and hold “MENU” for 5 seconds to set the values and exit

	MAIN DISPLAY Displays voltage information of the battery and connections to the controller If the battery shows empty check the connections and battery
	EQUALIZATION (FLOAT) Charges the battery from the solar panel until the battery's voltage reaches the set value
	DISCHARGE RECONNECT Charges the load when the battery's voltage reaches the set value
	UNDervoltage PROTECTION Disconnects the load when the battery's voltage reaches the set value
	WORK MODE Controls when the battery provides power to the load 0H: supply power when the solar panel is not receiving sunlight 1-23H: supply power for a set number of hours when the solar panel is not receiving sunlight 24H: supply power from the battery to the load
	BATTERY TYPE Displays the type of battery attached to the controller B01: SLA (Sealed Lead Acid) B02: GEL B03: Flooded Lead Acid (FLA) <i>(Parameters for B01/B02/B03 can be set as required)</i> B04: LiFePO4 4 Series (4S) B05: LiFePO4 5 Series (5S) B06: Li-ion 3 Series (3S) B07: Li-ion 4 Series (4S) <i>(Parameters for B01/B02/B03 can be set as required)</i>



TROUBLE SHOOTING

Situation	Probable Cause	Solution
Charge icon not displaying when solar charger is in the sun	The solar panel is not connected to the controller	Check all connections, ensure the positive and negative terminals are connected correctly
Load icon is off	Incorrect menu setting	Set the menu again
	Battery level too low to activate controller	Recharge the battery with a 240V smart charger to increase voltage
	No load is connected	Connect the load to the battery
Controller is turned off	Battery level too low to activate controller	Recharge the battery with a 240V smart charger to increase voltage
	Battery is not connected properly	Ensure all connections from controller to battery are correct

MAINTENANCE

The solar controller is a sealed unit. If a problem occurs, double check all connections including correct polarity at all connections.

For further information or assistance please contact Customer Service on 1300 555 197 or email: service@companionbrands.com.au



WARRANTY POLICY

LIMITED WARRANTY AGAINST DEFECTS

1. This Limited Warranty is provided by Adventure Operations Australia Pty Ltd ABN [43 622 679 887] trading as Companion in our capacity as supplier and manufacturer of the Products. Our contact details are:

Address: 71 Charles Ulm Place, Eagle Farm, 4009 QLD.

Phone number: 07 3193 1110

Email address: warranty@adventureoperations.com

OUR LIMITED WARRANTY

2. This Limited Warranty applies in addition to any other express warranty or warranties against defects we may supply from time to time for specific Products. If the individual packaging, accompanying product information or labelling of a Product specifies a different warranty period from the 12 month warranty period provided in this Limited Warranty, the packaging Warranty Period will apply instead but on the same terms as this Limited Warranty.

THE WARRANTY PERIOD FOR THIS PRODUCT IS: 1 YEAR

3. Moving forward, in this Limited Warranty, Warranty Period means:

- a) for all Companion Products, 12 months from the date of original purchase of the relevant Companion Product; or
- b) another time period set out in the individual packaging, product information, labelling, or accompanying a specific Companion Product.

4. Under this Limited Warranty, we warrant that products distributed by Adventure Operations Australia Pty Ltd and any of our subsidiaries (Products) will be free from defects in materials and workmanship under normal use (as described in the published product documentation accompanying or applicable to the relevant product) for the relevant Warranty Period (Limited Warranty).

5. If a defect in materials or workmanship becomes apparent under this Limited Warranty within the Warranty Period described above, subject to any additional rights you have under the Australian Consumer Law or any applicable local law, we agree to replace or refund covered Product parts that prove defective through normal use during the Warranty Period. We may alternatively agree to repair certain Products through our qualified agents, where such facilities are available. Without limiting any rights you have under the Consumer Law, the following conditions also apply to the Limited Warranty:

- a) in replacing a defective product under the Limited Warranty, we may, at our discretion, substitute the product with a product model of equivalent nature where the exact model of the defective product is unavailable;
- b) we may elect, at our discretion and as an alternative to repairing or replacing a defective part, to refund



the cost of the relevant product upon it being returned to us or one of our authorised resellers;

c) this Limited Warranty does not extend or apply to any claim you or any other person may have for damage for any loss (including without limitation consequential damages or loss of profit, freight/shipping or travel costs), or otherwise damage howsoever caused whether or not such loss or damage arises as a result of any defect in the product or from the failure or omission on our part to comply with any obligation at law relating to the defect;

d) this Limited Warranty does not apply to damage caused by your failure and damage caused by improper use and abuse, fair wear and tear, accidents, misuse (including failure to follow instructions regarding care and maintenance of the product), neglect, disassembly, alterations or external causes such as, but not limited to, water damage, exposure to sharp objects, exposure to excessive force, anomalies in the electrical current supplied to the product (if applicable), and extreme thermal or environmental conditions; and

e) this Limited Warranty does not extend to any Products acquired for the purposes of re-supply, or for use in a manufacturing, or repair processes.

REPAIR FACILITIES AND SPARE PARTS

6. Please note that we have very limited repair facilities for our Products. This means that subject to any limited repair facilities offered through authorised repair agents, we are not able to repair broken or damaged Products that are broken or damaged by you or are defective. For defective Products, this Limited Warranty and your rights under the Australian Consumer Law will apply and in most cases the remedy will be limited to a refund or replacement.

7. Companion carries spare parts for many, but not all, of our Products. A comprehensive catalogue of our spare parts can be found at: Camping Gear Spare Parts. This means that where a Product is broken or damaged by you, we may not be able to provide you with a spare part for that Product. Where a Product is defective, you will be entitled to your rights under this Limited Warranty and the Australian Consumer Law, and in most cases the remedy will be limited to a refund or replacement.

HOW TO CLAIM THE LIMITED WARRANTY

8. This Limited Warranty is only valid and enforceable in Australia or New Zealand and will apply only if you have purchased the Product from us directly or from one of our authorised resellers.

9. This Limited Warranty may be claimed by you if a defect becomes apparent in the Product within the Warranty Period.

10. To claim this Limited Warranty you must do either of the following:

a) return the defective product to its place of purchase within the Product's Warranty Period, with a detailed proof-of-purchase clearly showing the date and detail of the purchase;

b) make the warranty claim directly with us by returning the defective Product to our address at Adventure Operations, 71 Charles Ulm Place, Eagle Farm, 4009 QLD accompanied by a detailed proof-of-purchase clearly showing the date and detail of the purchase;



c) make the warranty claim directly with us by emailing us at warranty@adventureoperations.com accompanied by a detailed proof-of-purchase clearly showing the date and detail of the purchase. We may require you to mail us the product or email us photographs of the defect and Product.

11. Where you return the defective Product in-store to the place of purchase, our authorised reseller will inspect the Product and proof-of-purchase to determine if this Limited Warranty has been complied with and can be claimed. They will also determine the remedy available to you under this Limited Warranty.

12. Where you make the warranty claim directly with us, we will inspect the Product (including by inspecting photographs you send to us over email) and the proof-of-purchase to determine if this Limited Warranty has been complied with and can be claimed. We will also determine the remedy available to you under this Limited Warranty.

EXPENSES

13. You must bear the expense of claiming a remedy under this Limited Warranty, including postage and transport costs of returning the product. If we or our authorised reseller determine you are entitled to a remedy under this Limited Warranty, we will reimburse you for any reasonable expenses you have incurred in making the claim, provided you supply us with proof of such expenses.

YOUR RIGHTS UNDER THE CONSUMER LAW

14. Products distributed by Adventure Operations Australia Pty Ltd and any of our subsidiaries come with guarantees that cannot be excluded under the Australian Consumer Law or the New Zealand Consumer Guarantees Act 1993 (Consumer Law) (as the case may be). You are entitled to a replacement or refund for a major failure (or, where the New Zealand Consumer Guarantees Act 1993 applies, a failure of a 'substantial character') and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if products fail to be of acceptable quality and the failure does not amount to a major failure (or a failure of a substantial character, as the case may be).

CONTACT US

15. If you have any questions concerning this warranty policy, you may contact us in writing:
Adventure Operations, 71 Charles Ulm Place, Eagle Farm, 4009 QLD
or by email: warranty@adventureoperations.com
or visit our website: adventureoperations.com



WARRANTY - For details see www.companionoutdoor.com/warranty

Companion® is a registered trademark of
Adventure Trading Australia Pty Ltd

Designed by:

Adventure Trading Australia Pty Ltd

71 Charles Ulm Place,
Eagle Farm, QLD 4009
AUSTRALIA



Made in China