

POWERTECH

POWERTECH
ZM9124 Blanket
Solar Panel with
Charge Controller



POWERTECH ZM9124 Blanket Solar Panel with Charge Controller Instruction Manual

[Home](#) » [POWERTECH](#) » POWERTECH ZM9124 Blanket Solar Panel with Charge Controller Instruction Manual 

Contents

- [1 POWERTECH ZM9124 Blanket Solar Panel with Charge Controller](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 WARNINGS & SAFETY INFORMATION](#)
- [5 BEFORE FIRST USE](#)
- [6 BOX CONTENTS](#)
- [7 OPERATING INSTRUCTIONS](#)
- [8 HOW TO CHARGE A 12V BATTERY](#)
- [9 MPPT SOLAR CHARGER INDICATOR](#)
- [10 TROUBLESHOOTING](#)
- [11 SPECIFICATIONS](#)
- [12 WARRANTY INFORMATION](#)
- [13 Documents / Resources](#)
 - [13.1 References](#)
- [14 Related Posts](#)

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POWERTECH ZM9124 Blanket Solar Panel with Charge Controller



Product Information

Specifications

- **Solar Panel:** Monocrystalline
- **Solar Cell Type:** 166 x 166mm
- **Power Output:** 200W
- **Open Circuit Voltage:** 24.7V
- **Short Circuit Current:** 9.06A
- **Working Voltage:** 20.1V
- **Working Current:** 8.5A
- **Weight:** 5.8KG
- **Dimensions:** Folded: 560(W) x 390(H)mm, Unfolded: 1170(W) x 1120(H)mm

Product Usage Instructions

Setting Up the Blanket Solar Panel with Charge Controller

Place the solar panel in a flat, well-ventilated area for optimal sunlight exposure.

Charging a 12V Battery

WARNING: Do not connect heavy loads to the battery.

1. Connect the solar panel to the MPPT Solar Controller using the provided connectors.
2. Ensure the battery clamp lead is connected from the solar panel to the controller.
3. Refer to the MPPT Solar Charger Indicator to monitor the charging status.

Frequently Asked Questions (FAQ)

- **Q: What should I do if the charging symbol is not displaying?**

A: Reconnect the solar panel to the MPPT controller, ensuring correct polarity.

- **Q: How can I troubleshoot if the load icon is off?**

A: Check if the battery voltage is above 11.5V; charge the battery if necessary.

- **Q: The MPPT controller will not turn on, what could be the issue?**

A: Ensure proper connection of the battery and check for sufficient charge.

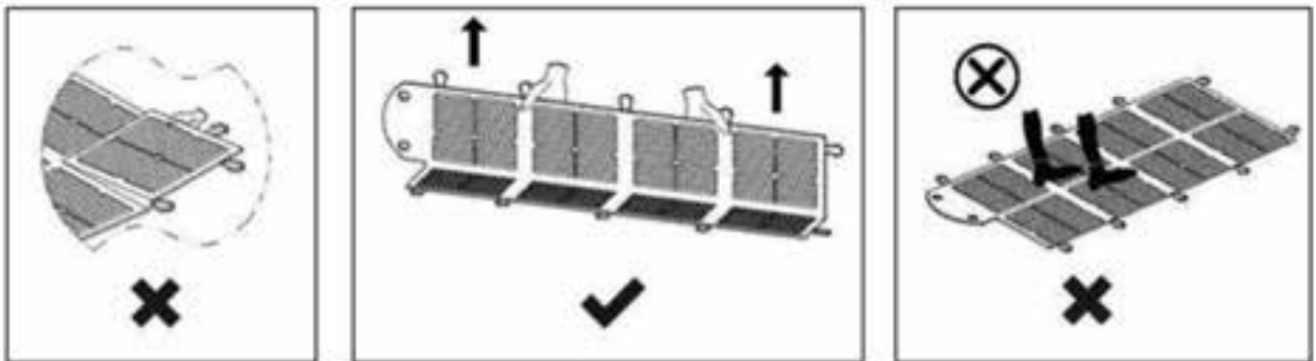
Blanket Solar Panel with Charge Controller
Instruction Manual

WARNINGS & SAFETY INFORMATION

WARNING: The manufacturer is not responsible for any potential injury from misuse

Please ensure that you have read the product manual and instructions in full before using this product. Failure to do so may result in incorrect operation and potentially impact the performance of the product. This product converts natural sunlight into DC electricity. It is designed to charge a 12V battery. For optimum performance, protect the solar cell from dust, dirt, and other debris.

- Use and store the product in a dry and ventilated location.
- Do not use in flammable or explosive areas.
- Stop use immediately if any wires become loose or electronic components are exposed.
- Do not pick panel up directly by the solar cells.
- Use the gap between solar cells to pick up the panel.



- Do not stand or walk on the solar panel.
- Ensure battery has enough voltage for the solar charge controller to recognise the battery type before first installation.
- Battery cable should be as short as possible to minimise loss.
- The regulator is suitable for lead-acid batteries (Flooded, LEAD, AGM, & GEL). Not suitable for nickel metal hydride, or other battery types.
- Charge regulator is only suitable for regulating solar modules. Never connect another charging source to the charge regulator.
- The MPPT solar charge controller will be hot when working. Please install in a flat, well ventilated area.

BEFORE FIRST USE

Prior to using your product, please read all the safety and operating instructions thoroughly. Please ensure you follow the steps below before using the product. We recommend you keep the original packaging for storing the

product when not in use.

Please pay close attention to the section entitled Warnings & Safety Information. Find a safe and convenient place to keep this instruction manual for future reference.

Unpack the product but keep all packaging materials until you have made sure your new product is undamaged and in good working order. Ensure you have all accessories listed in this manual.

BOX CONTENTS

- 1 x 200W Blanket Solar Panel
- 1 x 20A MPPT Solar Controller
- 2 x 50A Connector 10CM Lead with Rubber Cap
- 1 x 50A Connector 4.5M Extension Lead
- 1 x 50A Connector to Alligator Clips 0.5M Lead



OPERATING INSTRUCTIONS

- Unfold the solar panel
- Place the unfolded solar panel in a position that receives direct sunlight, facing to the sun. Ensure that no shadows are covering the solar cells.
- Tilt the solar panel at a suitable angle. This can be the same as your local latitude (additional support may be necessary, not supplied).
- Connect the solar panel to the MPPT solar charge controller before connecting battery clamp lead to the solar controller.

HOW TO CHARGE A 12V BATTERY

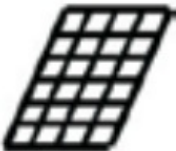

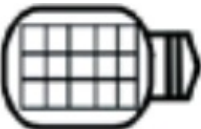
- Connect the battery to the solar charge controller.
- Connect load to the MPPT solar charge controller.
- Connect solar panel to the MPPT solar charge controller.
- Reverse this order when disconnecting.

NOTE: Heavy loads should not be connected to the battery.

WARNING: The reverse order applies when uninstalling. An improper sequence order can damage the controller.



MPPT SOLAR CHARGER INDICATOR

INDICATOR	STATUS		MEANING
	Solar Panel	Steady on	Solar panel voltage is higher than the light control voltage
		Off	Solar panel voltage is less than the light control voltage
	Battery	Any status	Indicate battery energy left is low, right is high.
		The left is flashing	Battery is nearly or already empty.
	Load	Steady on	Load receiving power
		Off	Battery voltage is abnormal

TROUBLESHOOTING

ISSUE	LIKELY CAUSE	SOLUTION
Charging symbol not displaying even when the solar panel is in the sun	Solar has been improperly connected to the MPPT controller	Reconnect the solar panel ensuring that the positive and negative terminals are appropriately connected
Load icon is off	Battery is low, the load will start when the battery voltage is higher than 11.5V	Charge the battery
The MPPT controller will not turn on	Battery is insufficiently charged	Check, and if necessary alter the battery's connection to the MPPT controller
	Battery has been connected improperly	Reduce load watts

SPECIFICATIONS

Solar Panel

Solar Cell Type	Monocrystalline 166 x 166mm
Power Output	200W
Open Circuit Voltage	24.7V
Short Circuit Current	9.06A
Working Voltage	20.1V
Working Current	8.5A
Weight	5.8KG
Dimensions	Folded: 560(W) x 390(H)mm Unfolded: 1170(W) x 1120(H)mm

MPPT Solar Charge Controller

Rated Charge Current	20A
Rated Discharge Current	20A
Rated Voltage	12V
MPPT Efficiency	Max:99%
Over Load, Short Circuit Protection	≥1.5 rated current
No Load Current	<10mA
Over Voltage Protection	16V
Cut off Voltage	14.7V
Discharge Recovery Voltage	12.0V
Low Voltage Cut Off	10.8V
USB Output	5V 1A
Working Temperature	-35 C~+55°C
Dimension Of Controller	131 × 99.5 × 29.5 mm
Weight	300g

WARRANTY INFORMATION

- Our product is guaranteed to be free from manufacturing defects for a period of 12 Months.
- If your product becomes defective during this period, Electus Distribution will repair, replace, or refund where a product is faulty; or not fit for intended purpose.
- This warranty will not cover modified product; misuse or abuse of the product contrary to user instructions or packaging label; change of mind and normal wear and tear.
- Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.
- To claim warranty, please contact the place of purchase. You will need to show receipt or other proof of purchase. Additional information may be required to process your claim.
- Any expenses relating to the return of your product to the store will normally have to be paid by you.
- The benefits to the customer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods or services to which this warranty relates.


This warranty is provided by:

Electus Distribution

Address 46 Eastern Creek Drive, Eastern Creek NSW 2766

Ph. 1300 738 555

Documents / Resources

	<p>POWERTECH ZM9124 Blanket Solar Panel with Charge Controller [pdf] Instruction Manual ZM9124, ZM9124 Blanket Solar Panel with Charge Controller, Blanket Solar Panel with Charge Controller, Solar Panel with Charge Controller, Panel with Charge Controller, Charge Controller, Controller</p>
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References

- [User Manual](#)

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