

USER GUIDE

400W PRO

SOLAR BLANKET



iTECHWORLD
THE POWER EXPERT

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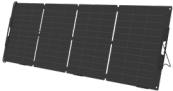
OVERVIEW

The iTechworld 400W PRO solar blanket kit is perfect for harnessing free solar power while you're on the road, ensuring your power system stays charged. The 400W PRO solar blanket possesses an exceptional 400W performance and a sleek, streamlined design, complemented by an updated kickstand for improved stability. Designed for rugged outdoor use, the PRO solar blankets come with an IP65 rating, meaning they are splash resistant, providing reliable performance in various weather conditions. The 400W PRO solar blanket is compatible with LiFeP04, AGM, GEL, WET and lead acid batteries.

KEY FEATURES:

- Exclusive Raptor Skin Cell Coating
- IP65 Resistant Rating
- Heavy Duty Design
- 21.3A Max Current
- 50A Anderson Output

PACKAGE CONTENTS

	
400W PRO Solar Blanket	5M Extension Lead

OPERATION

CONNECTION STEPS

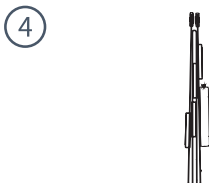
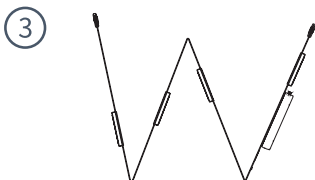
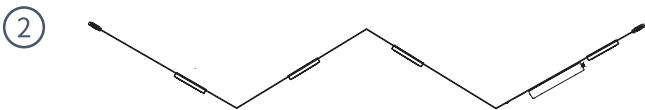
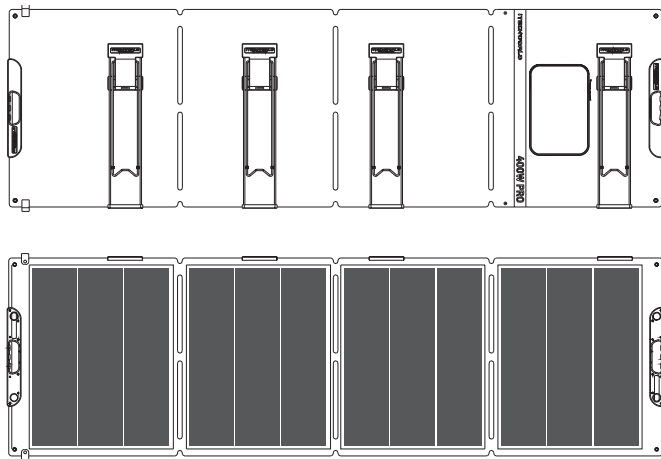
1. Open the clips on the solar blanket.
2. Extend the solar blanket fully.
3. Fold out the built-in stand.
4. Point the cells towards the sun.
5. Connect the device you are trying to charge through the 50A Anderson output in the pouch of the solar blanket.

NOTE: If you are charging a battery, you must also use a solar controller. If you are charging an iTechworld power station or powering an iTechworld DCDC charger, you do not need a solar controller as they are built in.

DISCONNECTION STEPS

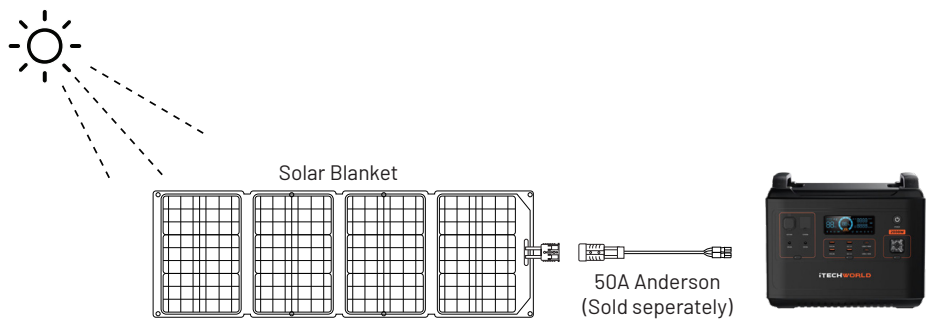
1. Disconnect the device you are charging starting with the 50A Anderson output in the pouch of the solar blanket.
2. Disconnect the solar controller (if required).
3. Disconnect the battery clamps / adapter from your device.
4. Fold up the solar blanket as shown below.
5. Close the clips on the solar blanket.

FOLDING DIAGRAM

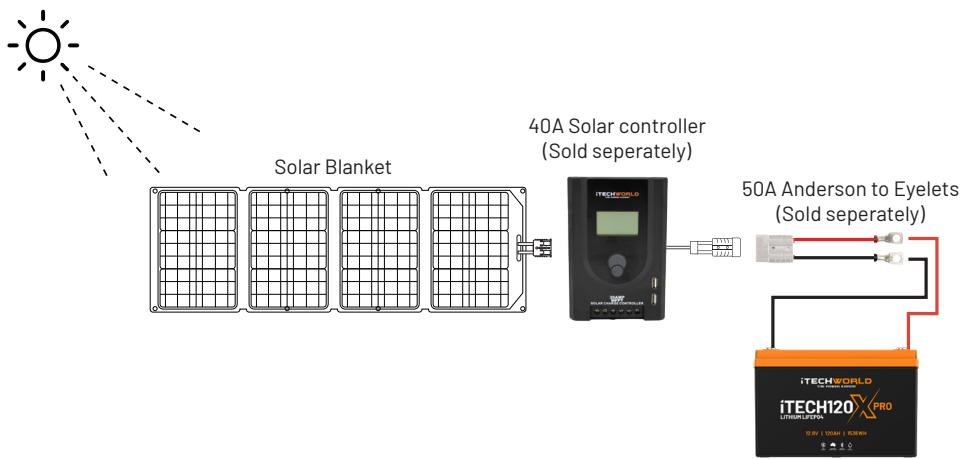


TYPICAL SETUP

Solar to Power Station



Solar to Battery



SPECIFICATIONS

iTechworld 400W PRO Solar Blanket		
Max Wattage		400W
Max Voltage		18.8V
Max Current		21.3A
Open Circuit Voltage		22V
Short Circuit Current		23.4A
Operating Temperature		-40°C ~ 85°C
Cell Lamination		Raptor Skin Technology
Cell Type		Monocrystalline
General		
Weight		17.8kg
Dimensions	Folded	860 x 50 x 780mm (LxWxH)
	Unfolded	2810 x 5 x 860mm (LxWxH)

All technical data is provided under standard test conditions. (E=1000W/m2, Tc=C25°, AM 1.5)

MAINTENANCE

The iTechworld 400W solar blanket kit is sealed to an IP65 rating, which means it is protected against water splashes only – do not leave it in the rain or water for long periods of time.

Ensure that when unfolding and folding the solar blanket, the panels are free of dirt and debris – we strongly encourage wiping down the panels with a damp cloth using water only, before and after use.

TROUBLESHOOTING

If your solar blanket is not charging or performing optimally, please test and inspect all components for defects and signs of damage. Ensure that the solar panels are placed at an optimum angle and area for sunlight – solar panels in the shade will not generate as much output.

Other common issues may include wiring issues and connection problems.

If your solar blanket kit is performing poorly:

- Check for shading from nearby trees, vehicles, or other obstructions and move the solar blanket as required.
- Ensure that the solar blanket is compatible with your devices and other equipment.
- Ensure the solar blanket is positioned properly to receive maximum sunlight.
- Ensure the solar blanket is clean and free from debris.
- Verify the connections are secure and properly aligned.
- Ensure the solar blanket is not damaged.
- Test the solar blanket with a different device to rule out issues with the battery, power station, solar controller, or DCDC charger.

SAFETY PRECAUTIONS

For safe operation and optimal performance, the iTechworld 400W PRO solar blanket kit must be operated correctly. Please carefully read, understand, and follow all instructions and guidelines in this user guide. Failure to follow these instructions may result in damage to the unit, property, death or serious injury.

Disclaimer: While iTechworld has taken every precaution to ensure the accuracy of the contents of this user guide, iTechworld assumes no responsibility for any errors or omissions.

Furthermore, all specifications and functionality may change at any time without notice.

It is best to view our website for the most up-to date information.

WARNING:

If you are using a terminal battery, you must use a solar controller.

WARNING:

Please adhere to all relevant electrical safety guidelines – avoid causing damage to or scratching the module's surface. Additionally, refrain from dragging your iTechworld solar blanket across the ground.

WARNING:

Do not drop the iTechworld 400W PRO solar blanket kit.

WARNING:

Do not use the iTechworld 400W PRO solar blanket kit and its accessories to connect equipment if there is a defect.

WARNING:

Do not disassemble or modify the iTechworld 400W PRO solar blanket kit; doing so may result in a risk of electrical shock, fire, death, or serious injury.

WARNING:

This product is only suitable for battery types listed in the manual. Do not use it for other purposes.

REGULAR INSPECTIONS:

Regularly check the blanket, components and all connections for signs of damage.

LIMITATIONS OF USE:

Do not use in connection with life support systems or other medical equipment or devices.

iTECHWORLD

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CONTACT US



1300 483 249



service@itechworld.com.au



www.itechworld.com.au



At iTechworld, we proudly lead the way in pioneering innovative off-grid power and battery solutions that bring cutting-edge technology to adventure seekers, remote workers, and outdoor enthusiasts across Australia. Since we began our journey all the way back in 2006, our passion has been to develop high-performance lithium batteries, solar panels, power stations, generators, and battery management systems tailored to caravans, camping, 4WDs, and off-grid living.

We believe in empowering people with reliable, portable, and efficient energy solutions, giving them the power they need—wherever their journey takes them. Our commitment to quality is unwavering, with every product rigorously tested to meet Australian conditions and backed by our knowledgeable power experts.

Driven by innovation, reliability, and sustainability, iTechworld is your trusted partner in power solutions, helping you stay powered anywhere, anytime.

iTechworld. The Power Expert.

LOVE YOUR 400W PRO SOLAR BLANKET? LEAVE A REVIEW

