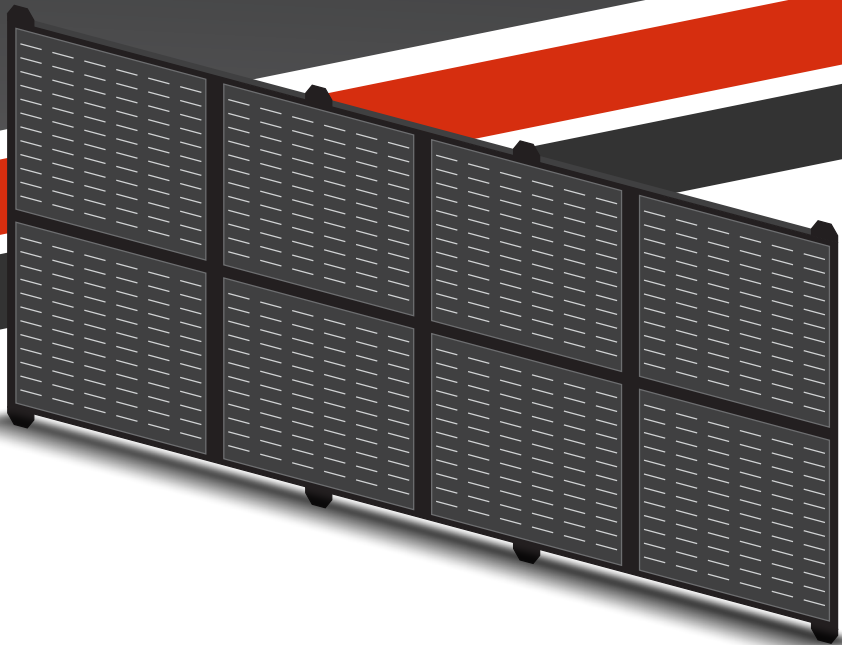


KICKASS[®]

SOLAR KASB

FOLDING MONOCRYSTALLINE SOLAR BLANKETS USER MANUAL



KASB160 | KASB300

V0.3

TABLE OF CONTENTS

WHY KICKASS?	2
IMPORTANT WARNING AND SAFETY INSTRUCTIONS	2
INCLUDED PARTS	4
KICKASS SOLAR BLANKET FEATURES	5
KASB160 160W SOLAR BLANKET FEATURES	6
KASB300 300W SOLAR BLANKET FEATURES	7
SOLAR POSITSION OPITIMATION GUIDE	8
RECOMMENDED CONNECTION DIAGRAM	9

WHY KICKASS?

KickAss is focused on bringing the luxury of home to the outdoors. Your one stop shop for 12V products. All of our products are designed to be plug and play, for the ultimate camping experience. Designed by the KickAss team in Australia.

Our team of dedicated engineers test every product to make sure they stand up to the tough Australian outback. The new KickAss folding Solar Blankets are no different using high quality material and Anderson style connectors for easy integration to our range of charging options.

The KickAss Folding Solar Blanket has been design to provide a compact and robust portable solution, with a highly efficient power output.

The blanket has been constructed with UV resistant Nylon canvas and a heavy duty backing to provide better resilience in off-road environments. Each A-grade cell constructor is coated with high quality ETFE, making a longer lasting quality product.

IMPORTANT WARNING AND SAFETY INSTRUCTIONS

IMPORTANT WARNING AND SAFETY INSTRUCTIONS

PLEASE SAVE THESE INSTRUCTION

THIS MANUAL CONTAINS IMPORTANT SAFETY INSTRUCTIONS FOR KICKASS FOLDING SOLAR BLANKETS

DO NOT operate Solar Blankets **UNLESS YOU HAVE READ AND UNDERSTOOD THIS MANUAL** and the Solar Blanket is installed as instructed.

WARNING! RISK OF EXPLOSIVE GASES

Working in the vicinity of Lead-Acid batteries is dangerous. During normal operation batteries generate explosive gases. It is important that the battery is operated in a well ventilated area and the Solar Blanket is installed as directed.

WARNING: Check the battery manufacturers guide for the recommended voltage profile for charging. Failure to ensure the selected voltage does not exceed the recommend profile could damage your battery. Change the selection if necessary before charging the battery.

WARNING! RISK OF INJURY AND DAMAGE DUE TO INCORRECT INSTALLATION OR SECURING OF PRODUCT

It is highly important to correctly secure your solar blanket in the event of high wind. The instructions provided in this manual are a guide. It is the responsibility of the user to ensure the product is securely attached to a mounting surface at all times and in accordance with all local and national safety standards. In addition, any mounting devices used for installation must adhere to the manufacturers' safety instructions and it may be required to exceed these, to comply with local and national standards. We recommend that a qualified installer be used.

CAUTION!

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or have been properly instructed on how to use the appliance by a person responsible of their safety. Children should be supervised to ensure they do not play with the appliance
- DO NOT connect the Solar Blanket directly to a battery. ALWAYS use a solar regulator of the correct input rating to connect the Solar Blanket to before connecting and charging the battery.
- Ensure you use the Solar Blanket with a regulator of the correct input rating and suitable charge profile for the battery chemistry type being charged. Suitable battery types include; Lead Acid, Gel, Calcium, AGM or Lithium Iron Phosphate.
- The battery should be mounted in a well ventilated area, and a safe distance from any ignition source. NEVER smoke or allow a spark or flame in the vicinity of the battery. This may cause the battery to explode.
- To reduce the risk of sparks, connect or disconnect the Solar Blanket to the charge regulator BEFORE exposure to sunlight. The Solar Blanket may generate voltage up to the rated open circuit value, at the connection leads while unconnected.
- The Solar Blanket will achieve best results when proper battery maintenance is regularly performed. This includes but is not limited to checking water and specific gravity levels of the battery.
- Do not use mirrors or other devices to artificially concentrate sunlight on the Solar Blanket.
- The Solar Blanket is not designed to be used in series or parallel.
- Partially shaded or partially obscured Solar Blankets will have reduced output, and can potentially damage the Solar Blanket over time.
- Do not operate Solar Blankets on vehicle paint work. eg. vehicle bonnet or roof.
- Do not place heavy items on top of stored blanket.

PERSONAL SAFETY PRECAUTIONS

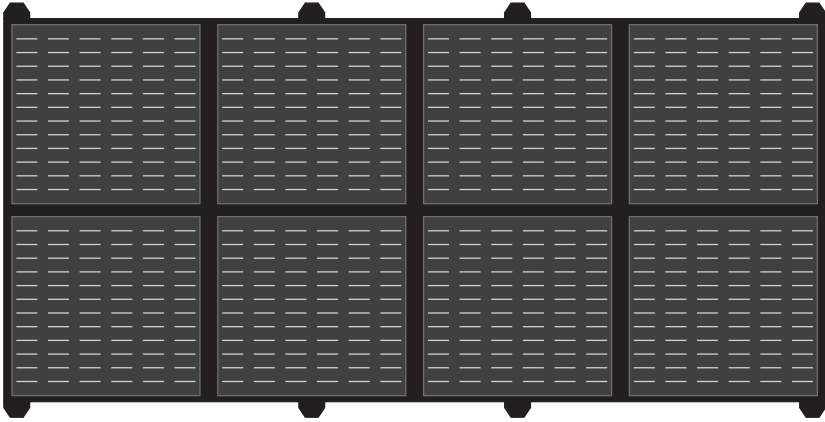
When connecting the Solar Blanket to batteries via the regulator:

- Wear complete eye and clothing protection. Avoid touching eyes while working near a battery.
- If battery acid contacts your skin or clothing, remove the affected clothing and wash the affected area of your skin immediately with soap and water. If battery acid enters your eye, immediately flood the eye with running cold water for at least 10 minutes and seek medical assistance immediately.



**SCAN CODE TO
VISIT OUR SOLAR
BLANKET PAGE**

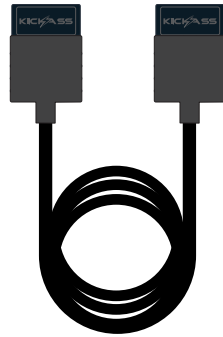
INCLUDED PARTS



KA SOLAR FOLDING BLANKET

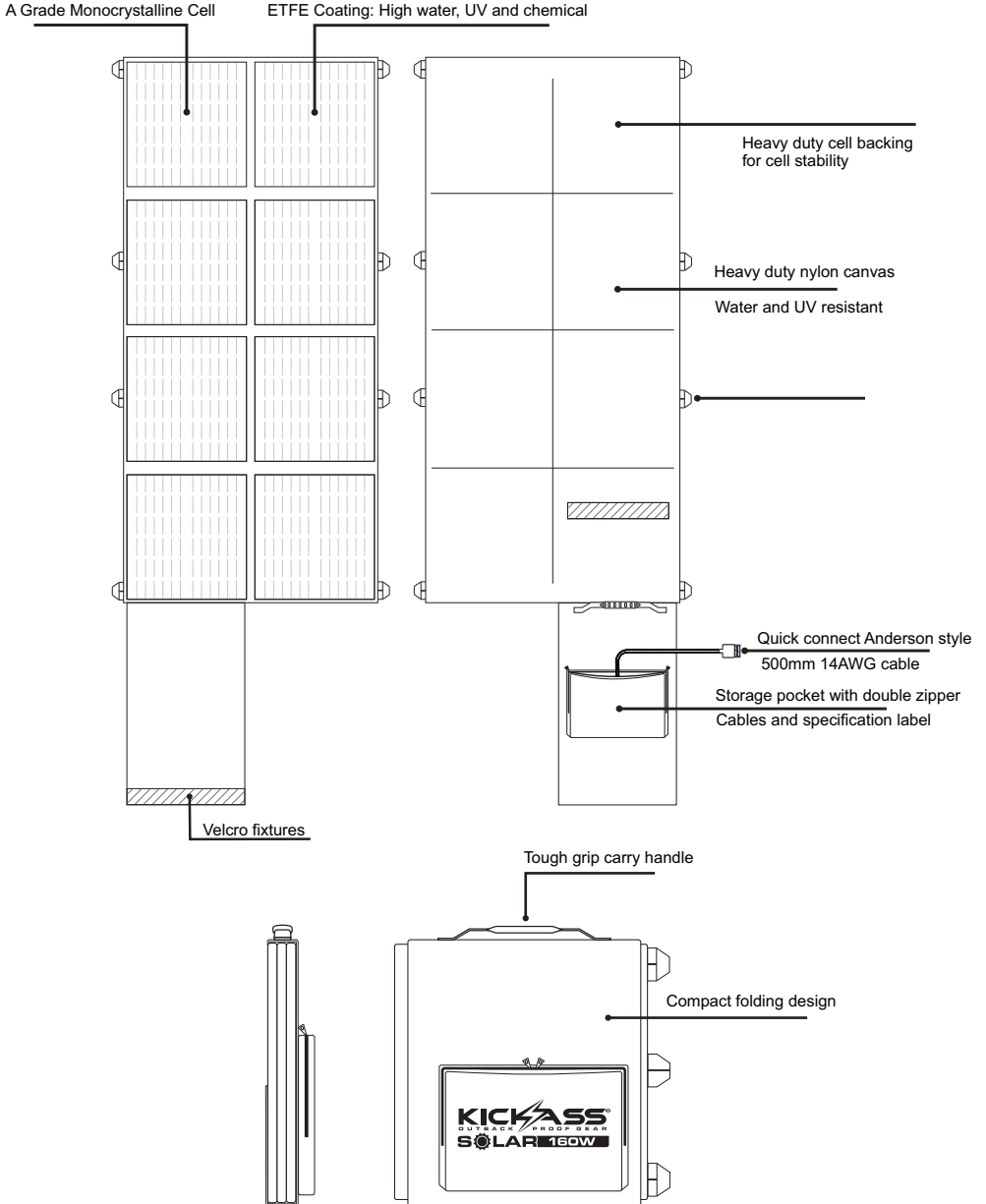


INTEGRATED CARRY BAG

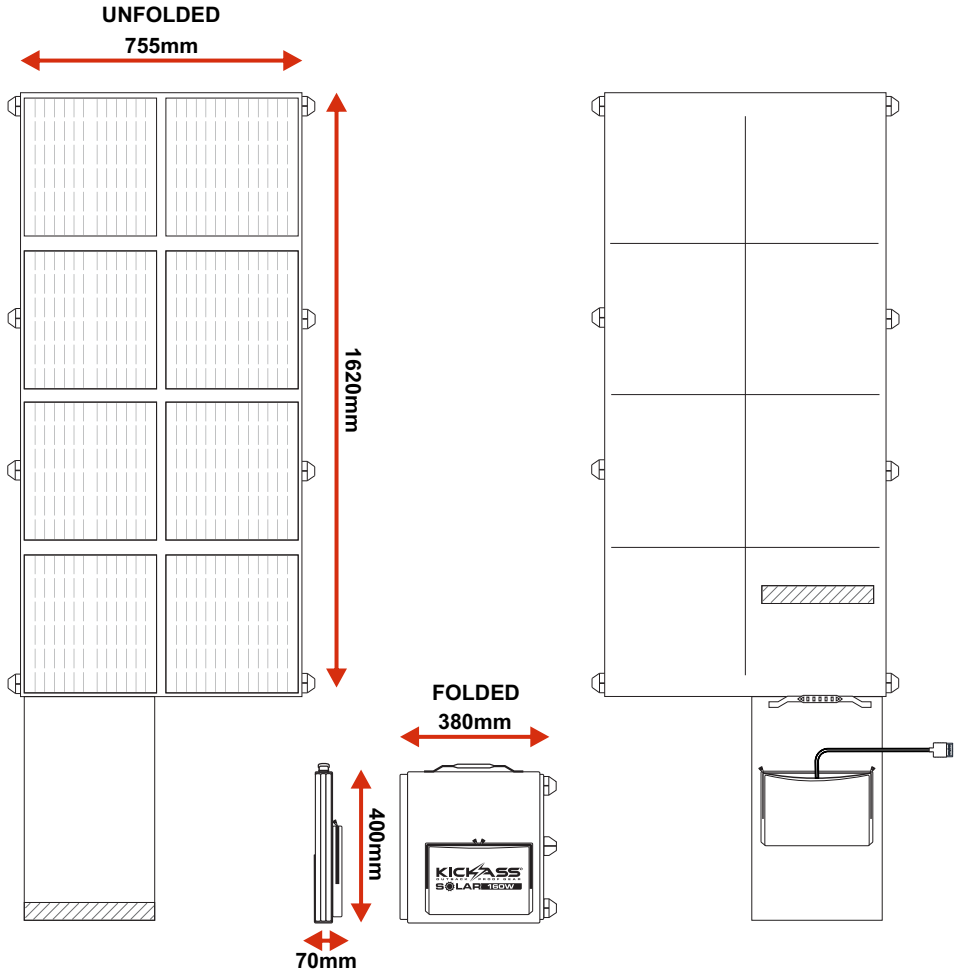


ANDERSON TO ANDERSON
EXTENSION CABLE

FEATURES



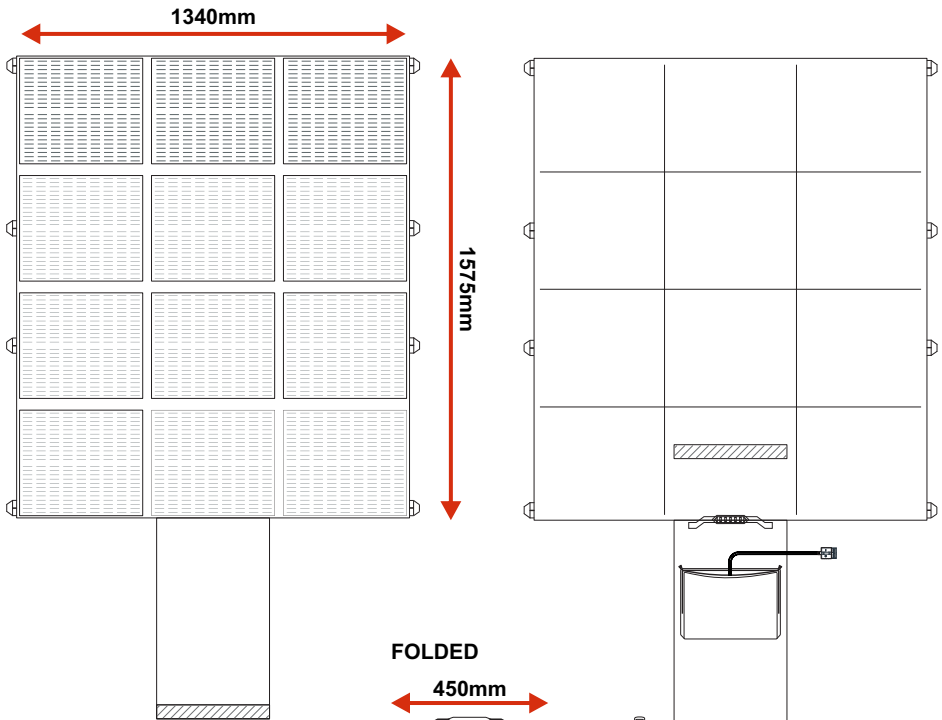
KASB160 DIMENSIONS / SPECIFICATIONS



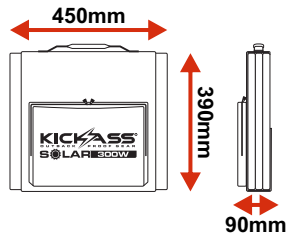
SKU:	KASB160	Power tolerance:	+ / - 5%
Cell type:	High efficiency A-grade monocrystalline	Conversion efficiency:	21.6%
Cell coating:	ETFE	Dimensions (open):	1620mm x 755mm x 7mm
Max power (Pmax):	160W	Dimensions (closed):	400mm x 380mm x 70mm
Max power voltage (Vmp):	17.65V	Weight:	7.2kg
Max power current (Imp):	9.09A	Backing material:	Water proof Nylon with UV resistant coating
Open circuit voltage (Voc):	21.20V	Connector type:	Anderson style
Short circuit current (Isc):	10A	Cable:	500mm 14AWG / 5m 12AWG
Operating temperature:	0°C to 85°C	Mounting points:	Tabs x 8

KASB300 DIMENSIONS / SPECIFICATIONS

UNFOLDED



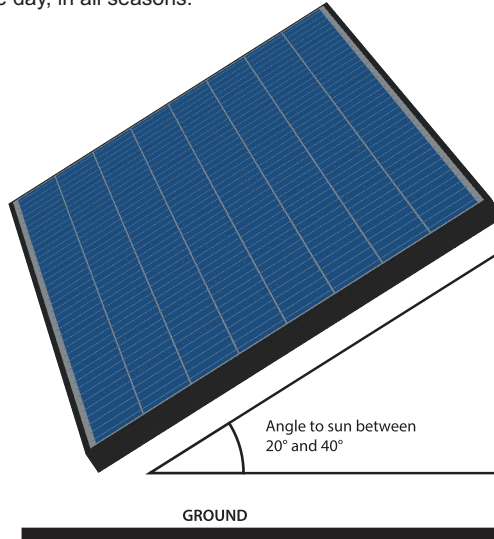
FOLDED



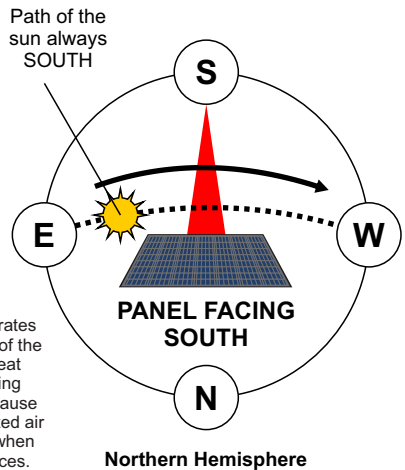
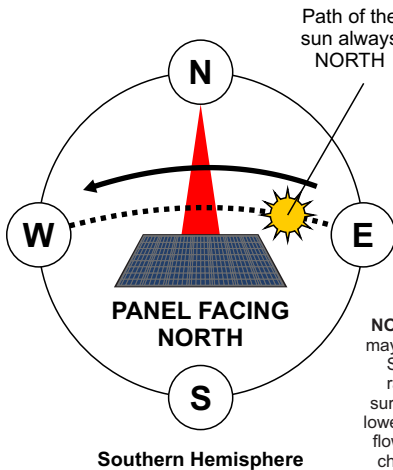
SKU:	KASB300	Power tolerance	+ / - 5%
Cell type:	High efficiency A-grade monocrystalline	Conversion efficiency:	21.6%
Cell coating:	ETFE	Dimensions (open):	1575mm x 1340mm x 7mm
Max power (Pmax):	300W	Dimensions (closed):	390mm x 450mm x 90mm
Max power voltage (Vmp):	19.8V	Weight:	11.25kg
Max power current (Imp):	15.15A	Backing material:	Water proof Nylon with UV resistant coating
Open circuit voltage (Voc):	23V	Connector type:	Anderson style
Short circuit current (Isc):	15.5A	Cable:	500mm 14AWG / 5m 12AWG
Operating temperature:	0°C to 85°C	Mounting points:	Tabs x 8

SOLAR POSITION OPTIMIZATION GUIDE

KickAss Solar Blankets will perform at their peak with the Blanket face angled directly towards the sun. In the field this is not always possible. KickAss recommends angling the blanket between 20° and 40° from the ground. This ensures the most efficient total power output from your Solar Blanket during the course of the day, in all seasons.



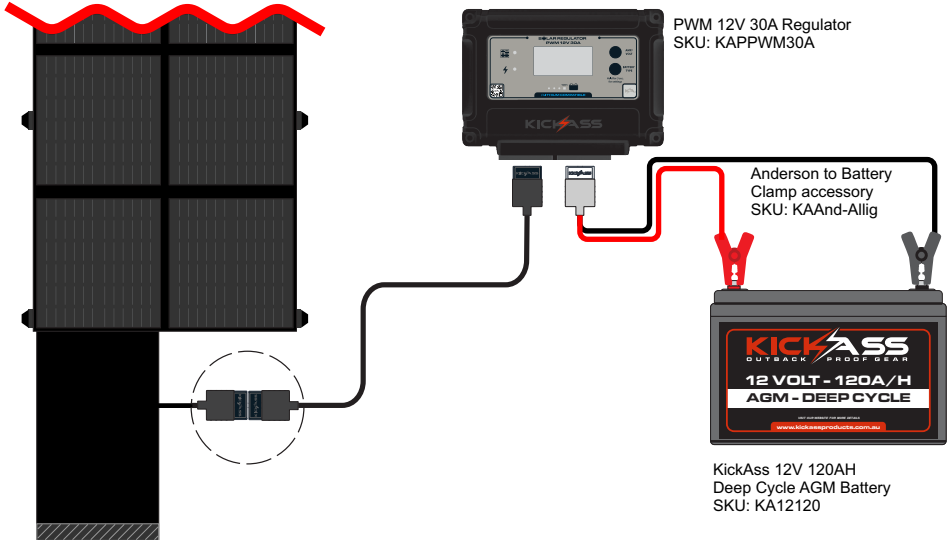
In the Southern Hemisphere, the sun is always in the NORTHERN half of the sky. Facing your Blanket NORTH ensures the best angle to the sun for a Solar Blanket during the course of the day. In the Northern Hemisphere, the sun is always in the SOUTHERN half of the sky. Facing your Blanket SOUTH ensures the best angle to the sun for a Solar Blanket during the course of the day.



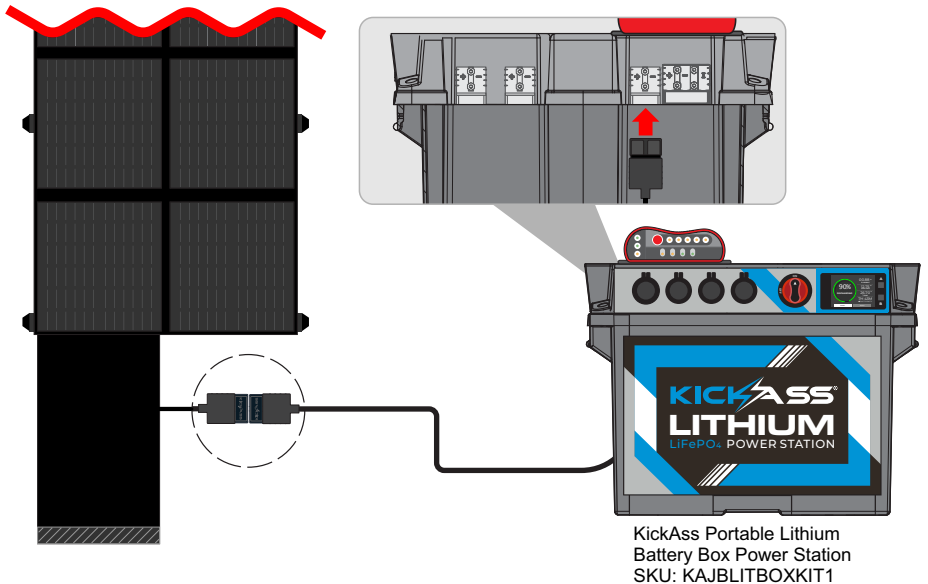
NOTE: High panel temperatures may reduce the efficiency of the Solar Blanket output. Heat radiation from surrounding surfaces eg. metal, may cause lower output if there is limited air flow. Take consideration when choosing mounting surfaces.

RECOMMENDED CONNECTION DIAGRAM

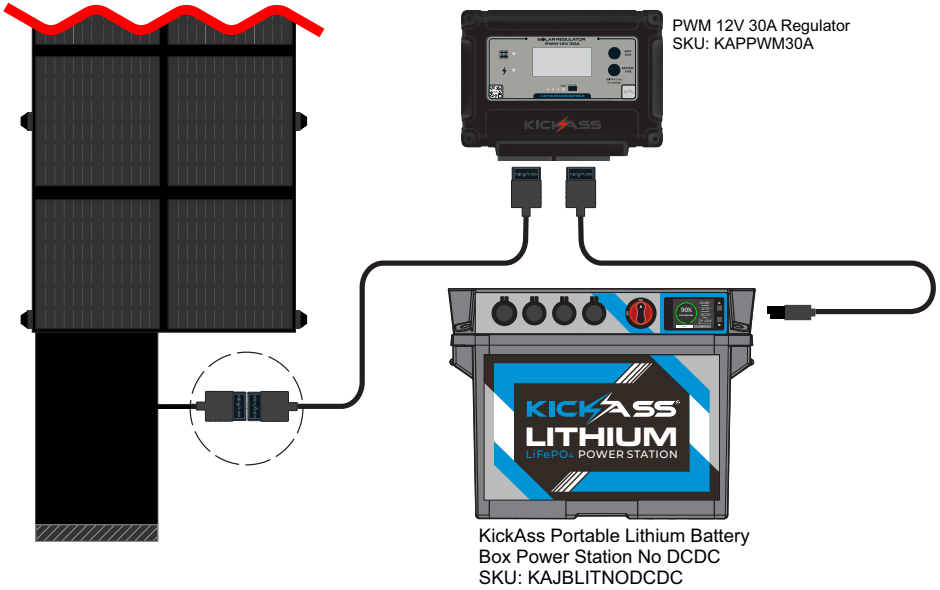
KickAss Monocrystalline Solar Blanket Connection to KAPWM30 30A regulator



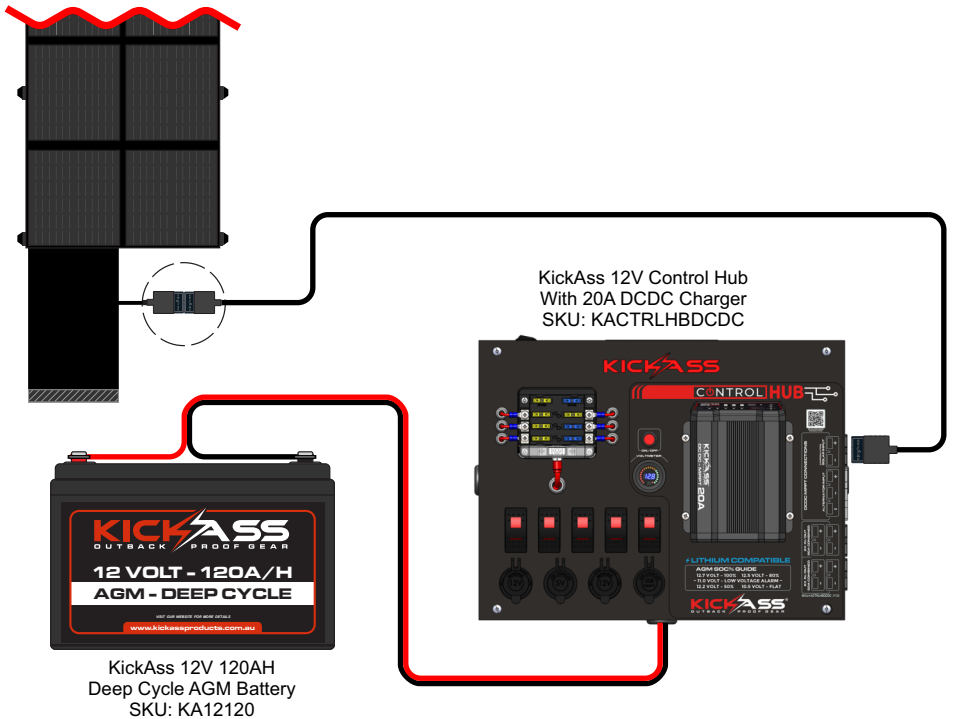
KickAss Monocrystalline Solar Blanket Connection to KA Power Station with DCDC



Kickass Monocrystalline Solar Blanket Connection to KA Power Station with no DCDC



Kickass Monocrystalline Solar Blanket Connection to KA Control Hub with AGM Battery



THANK YOU FOR CHOOSING

KICK  **ASS**®



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kickassproducts.com.au