

# KUFU SPARK

## Product Manual

*Congratulations on your new Kufu SPARK!*

*Please read the following manual and follow all safety, user, and maintenance instructions.*

### **TERMINOLOGY:**

Kufu SPARK: **KSP**

### **SPECIFICATIONS:**

#### 1. Dimensions

Width: 85.2 cm      Depth: 13.5cm (inc Mounting Bracket)      Height: 38cm  
Weight: 7.2kg

#### 2. Input Power:

- 12V Lithium-Ion Battery Supply Only, supplied with REDARC Lithium Batteries.
- Vehicle Supply, 50 AMP Anderson Plug (Grey)
- Solar Power, Anderson Plug (Red)

#### 3. Output: See circuit reference image

- 200A Main Isolator Switch
  - Smart 8 Switch Circuits:
    - 2x 12V 30 Amp, Fused Circuits, 2x 12V 20 Amp, Fused Circuits, 2x 12V 10Amp, Fused Circuits, 2x 12V 5Amp, Fused Circuits
  - All Smart 8 Switches can be controlled by Smartphone Devices via App, download the app for smartphone using the QR codes below...



**IOS APP**



**ANDROID APP**

- Input / Output, Anderson Plug, 50 Amp Fused

**SAFETY INSTRUCTIONS:**

1. Ensure the KSP is kept out of all weather
2. Keep away from rain or direct sunlight
3. Do not use liquid cleaning sprays of any type on or near the KSP
4. Do not cover the KSP
5. Ensure items place nearby do not damage or protrude onto the KSP housing
6. All servicing and maintenance and inspection should be performed by a qualified Auto-Electrician
7. The KSP should be mounted to a vertical surface
8. Do not remove the front cover of the KSP
9. Check all fuses regularly to ensure safe operation of circuits
  - a. Refer to the diagram for the circuit layout and fuse reference
  - b. When inspecting or changing fuses turn the main isolator switch off and disconnect all inputs such as solar, the vehicle input

**USER INSTRUCTIONS:**



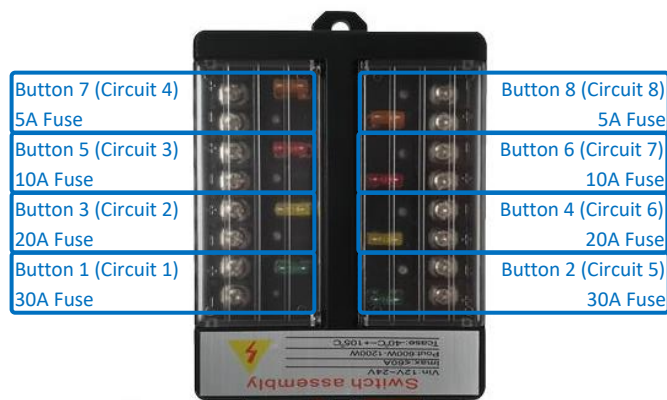
**Kufu SPARK, Smart 8 Switch Panel**



**Smart 8 Switch Button # Number Reference**



**Kufu SPARK, Smart 8 Switch Panel**



**Button Number, Circuit and Fuse Size Reference**

ITEM No.	COMPONENT NAME	Switch & Reference Information
1	Battery Isolator Main Switch	
2	Smart 8 Switch Panel	
3	PSW Inverter	REDARC PSW Invert 1500 / 2000
4	Smart 8 Switch Fuse Box	Refer to diagram above
5	RCD Protected Double Power Outlet 240V~	Appliances to be less than PSW Inverter Power (Watts) Rating
6	Battery Voltmeter	Smart 8 Switch Button # 6, 10Amp Fuse, Circuit 7
7	Midi Fuse, 50A	Anderson Plug Output 50A, see Item 16
8	Double USB Socket	Smart 8 Switch Button # 3, 20Amp Fuse, Circuit 2
9	Pump Plug	Smart 8 Switch Button # 5, 10Amp Fuse, Circuit 3
10	Interior Lighting Plug	Smart 8 switch Button # 8, 5Amp Fuse, Circuit 8
11	12V Cigarette Lighter Socket, 20 Amp	Smart 8 switch Button # 4, 20 Amp Fuse, Circuit 6
12	Anderson Plug Outlet, 30Amp	Smart 8 Switch Button #2, 30Amp Fuse, Circuit 1
13	Anderson Plug Outlet, 30Amp	Smart 8 Switch Button #1, 30Amp Fuse, Circuit 5
14	Vehicle Power Input	Anderson Plug, use Main Switch
15	Solar Power Input	Red Anderson Socket, Unswitched
16	Output/Input, Main Switched	See Item 7. Midi Fuse 50Amp
17	Lithium Ion Battery Power Input	Large Anderson Socket
18	PSW Inverter Remote Switch	Smart 8 Switch Button #7, 5Amp Fuse, Circuit 4
19	Midi Fuse, 50Amp	BCDC Charging Output
20	BCDC Core40 viewing window	Inspect for component status

**1. Instructions:**

2. The KSP is a battery charging unit and power output control system for your camping and recreation appliances and devices. These can be either 12V or 240V. Use the KSP to power most domestic appliances using the RCD Protected Double Power Outlet, that provides 140VAC power.
3. To start:
  - a. Ensure all devices are connected securely, turn on the KSP
  - b. The KSP in the Road Warrior Camper is prewired and tested.
  - c. Accessories /devices purchased with the RWC/KSP are installed, terminated to the KSP and tested.
  - d. If you are using the KSP in a custom installation, only use the services of an Auto-Electrician to terminate and test these appliances within your custom installation.
4. Use the Smart 8 Switch Panel to Control devices:
  - a. Most circuits are controlled by the Smart 8 Switch Panel, this can also be controlled using a smartphone or Bluetooth connected device.
  - b. These circuits are prewired and fused to suit the various appliances, take note of the rating of each circuit to not overload the circuit.
  - c. See diagram for button and circuit reference.
  - d. Do not attempt to rewire or change the circuits of the KSP
5. A KSP can be upgraded to run various types of appliances and devices, get in touch with us to discuss and arrange the termination and testing of your next appliances.

**MAINTENANCE:**

1. Regularly inspect the fuses to ensure components and devices are properly protected.
2. If a fuse is blown, replace with the same rated fuse, from a reputable supplier.
  - a. Do NOT open the KSP to service or inspect any components.
3. Always use the services of an Auto-Electrician to inspect the Kufu SPARK device.

**FOLLOW US ON FACEBOOK AND  
INSTAGRAM TO SEE WHAT WE'RE UP TO!**



Check out our websites at

<https://www.roadwarriorcampers.com.au/>

<https://www.kufu.com.au/>

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