



iTECHWORLD

JS80

Multifunctional Jump Starter



User Guide



INTRODUCTION

JS80

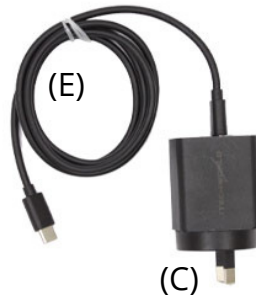
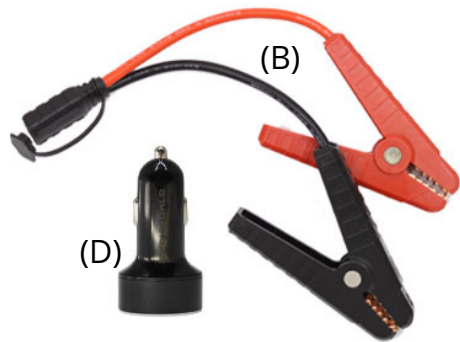
Thank you for purchasing the iTechworld JS80. Please read and understand this user guide before using the product. The JS80 is a vital power source that has been explicitly designed to jump-start any vehicle's battery with minimal fuss and effort. By reading this user guide and becoming familiar with the operation of the JS80, it will ensure that you can jump-start your vehicle quickly.



IN THE BOX

JS80

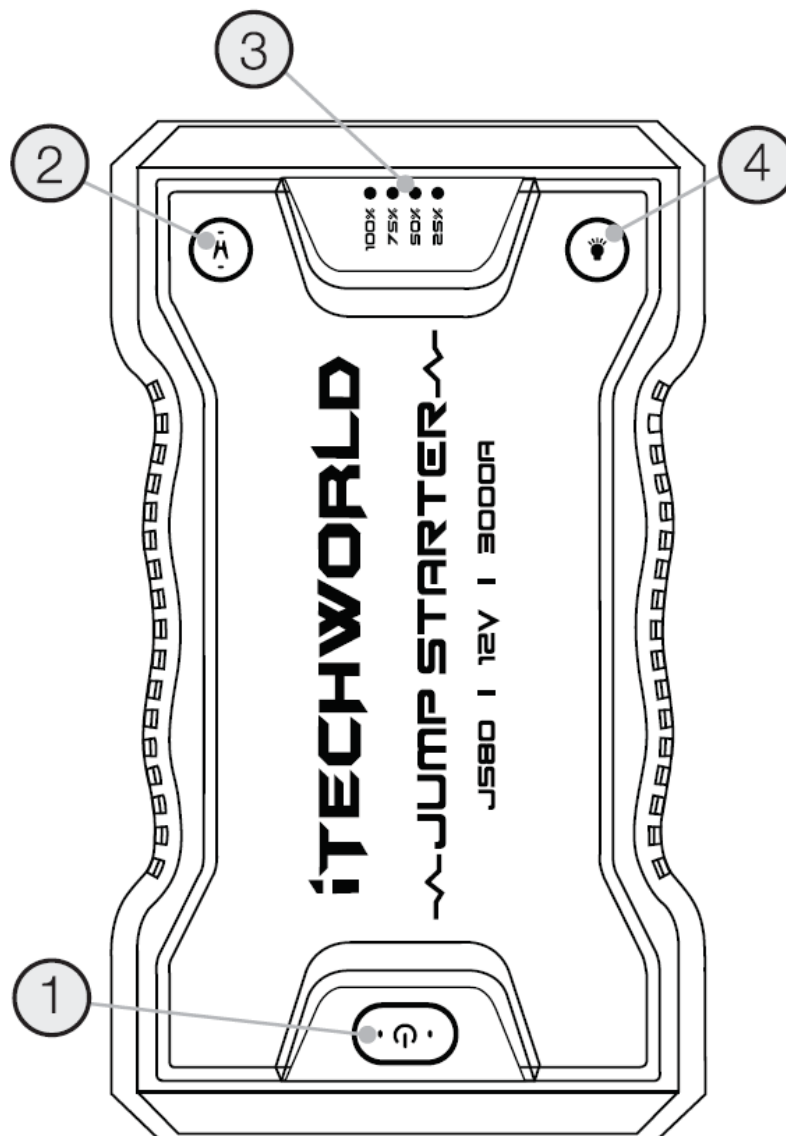
- (A) JS80 Jump Starter
- (B) Heavy Duty clamps
- (C) 18W 240V charger (wall charger)
- (D) 12V car charger
- (E) Type C to type C cable
- (F) 12V female cig socket
- (G) Storage bag
- (H) User guide (not shown below)



INTERFACE

JS80

- 1 Power button
- 2 Start button
- 3 State Of Charge (SOC)
- 4 Torch button





GETTING STARTED

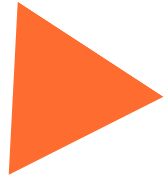
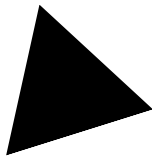


JS80

The JS80 has been designed and developed in Perth, Australia and utilizes an ultra-safe design which prevents any errors occurring. With no less than seven safety features, including spark-proof technology and reverse polarity protection, the JS80 is the smart, secure, and straightforward way to start a vehicle.

Read and understand this user guide before trying to operate the JS80. Please note that the JS80 is only suitable for 12V batteries. Please fully charge the JS80 when you receive it. To maintain the longevity and effectiveness of the JS80, keep it fully charged. Do not leave the JS80 always on the charger, when the JS80 reaches 100%, disconnect the charger. The JS80 can hold its charge for up to six months. You must check the state of charge every 2-3 months and charge if required. Do not leave the JS80 in an uncharged state (0%) for more than three days.

Under normal circumstances, the JS80 will jump-start any vehicle instantly. From one full charge of the JS80, you can jump start numerous times. The JS80 has fast-charging USB ports, USBC port, 12V output port and a 500 lumens tactical flashlight.



JUMP STARTING

JS80

Before connecting the JS80 to a vehicle's battery, ensure that the battery and vehicle are 12V. The JS80 is not suitable for 24V+ vehicles. In most cases, the positive terminal will be red + and the negative terminal will be black -.

Do not make any connections to carburetors, fuel lines or sheet metal parts.

1. Locate the "12V OUT" section on the JS80 and open the orange rubber flap.
2. Insert the Heavy Duty clamps into the "12V OUT" section as per the image below.
3. Ensure that the vehicle's power loads are all off. Headlights, radio, air conditioning and any other load.
4. Connect the Heavy Duty clamps to the corresponding battery terminals. Positive to positive and negative to negative.
5. Press the start button located on the face of the JS80. See image below. If connected correctly, the start button will illuminate green.
6. Start the vehicle.
7. If the vehicle does not start, wait 30 seconds and repeat from step 5 onward. Do not attempt more than five jump starts within fifteen minutes.
8. When the vehicle starts, disconnect the JS80 and Heavy Duty clamps.



STATE OF CHARGE

JS80

The JS80 has four charge LEDs 25%, 50%, 75% and 100%. The charging LEDs indicate the state of charge (SOC) of the internal battery of the JS80. The charging time of the JS80 will vary depending on the discharge level and the power supply used.

5V 2A - 10 hours

9V 2A - 6 hours

12V 1.5A - 6 - 8 hours

12V 3A - 3 - 4 hours

20V 1.5A - 4 - 6 hours

20V 3A - 2 - 3 hours



CHARGING

JS80

The JS80 charges via the PD port. There are two methods that you can use to charge the JS80, all equipment to charge the JS80 is provided in the kit. Please refer to the "IN THE BOX" section of this user guide to become familiar with the accessories.

Charging method 1.

- Locate the PD port on the JS80 and open the orange rubber flap.
- Take the USBC to USBC cable and insert one end into the PD Port of the JS80.
- Insert the other end of the USBC to USBC cable to the PD Port on the 18w 240V charger (wall charger).
- Insert the 18w 240V charger (wall charger) into a 240V mains power supply to begin charging.

Charging method 2.

- Locate the PD port on the JS80 and open the orange rubber flap.
- Take the USBC to USBC cable and insert one end into the PD Port of the JS80.
- Insert the other end of the USBC to USBC cable to the PD Port on the 12V car charger.
- Insert the 12V car charger into a 12V power supply to begin charging.



PD PORT

ENERGY SAVING

JS80

The JS80 has energy saving modes which will activate if certain criteria is reached. If either of the USB ports have a load of less than $< 80\text{mA}$ after 30 seconds the power button's light will turn off but the output will be on. To turn the JS80 off completely, press and hold the power button.

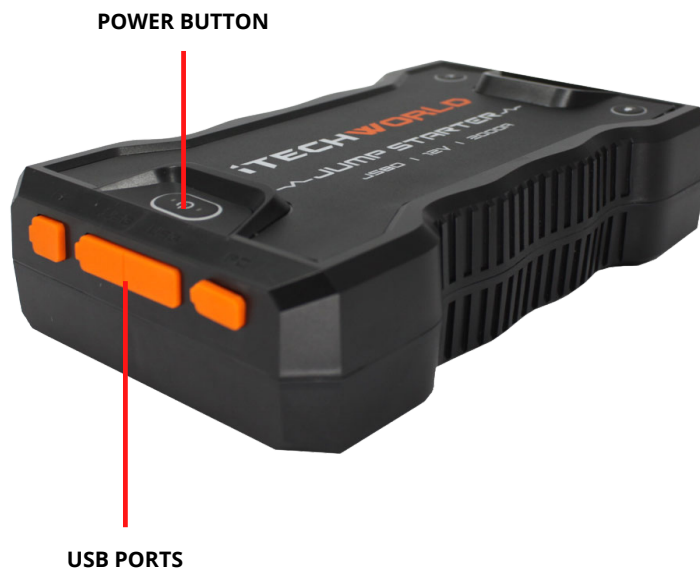
If the 12V DC load is less than $< 170\text{mA}$ after 30 minutes the power button's light and the DC port will turn off. If the 12V DC load is $>$ greater than 170mA after 30 minutes the power button's light will go out but the output will still be on. To turn the JS80 off completely, press and hold the power button.



USB

JS80

The JS80 has two quick charge USB ports. To use the USB ports, the JS80 must be switched "on" via the power button. Locate the USB ports on the JS80 and open the orange rubber flap. Plug in the device to the USB ports to use.



12V DC OUTPUT

JS80

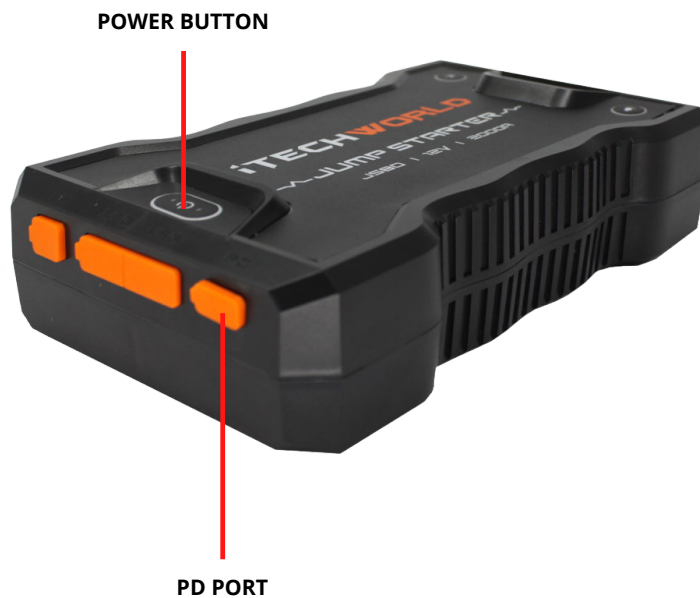
The JS80 has one 12v regulated DC port. To use the DC port, the JS80 must be switched "on" via the power button. Locate the DC port on the JS80 and open the orange rubber flap. Plug in the 12V female cig socket provided in the kit. You can now plug in 12V powered devices such as a 12V fridge into the JS80. Maximum amp draw 10Amps.



USBC PD OUTPUT

JS80

The JS80's PD port can also be used as an output to power USBC devices. The JS80 supports PD60W output 5V3A, 9V3A, 12V3A, 15V3A, 20V3A. To use the USBC PD port, the JS80 must be switched "on" via the power button. Locate the USBC PD port on the JS80 and open the orange rubber flap. Plug in the device to the USBC PD port to use.



CHARGE & DISCHARGE

JS80

The JS80 features pass-through charging commonly referred to as "charging and discharging at the same time".

The JS80 can be charging via the vehicles 12v cig socket, and at the same time run a 12v fridge. When the car stops, the JS80 will keep running the 12v fridge. Start the car back up again, and the JS80 will continue to charge.

The JS80 is capable of running a small inverter (up to 200W) provided the inverter has a 12v cig male adapter. Add an inverter to the JS80, and you now can power 240v appliances such as laptops. The JS80 becomes a small, light and compact lithium power station.



RUNNING DEVICES

JS80

The JS80 is great as a portable power supply, all ports can be used simultaneously as outputs. Charge and run multiple devices all at the same time.

See the info-graph below to show how many times you can charge popular items with the JS80.



TACTICAL TORCH

JS80

The JS80 has a 500 Lumen tactical torch inbuilt. To use the tactical torch, the JS80 must be switched "on" via the power button. Now press the torch button. The torch will illuminate. To turn the torch off press the torch button again.





SPECIFICATIONS



JS80

Peak current: 3000A

Optimum operating temperature: -20c to +50c

Optimum charging temperature: 0c to +40c

Optimum storage temperature: -20c to +50c

PD input/output: MAX60W 5V3A 9V3A 12V3A 15V3A 20V3A

USB output: MAX18W 5VA3A 9V2A 12V1.5A

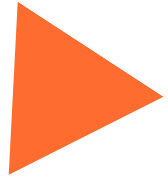
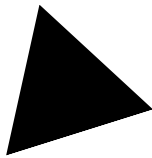
DC output: 12V 10A

Shell protection: IP65 with ports closed

Cooling: Natural convection

Dimensions L * W * H: 240 * 140 * 60mm

Weight: 1.3kg





ERRORS



JS80

Input high voltage: Red light on

Input low voltage: Red light on

Reverse polarity protection: Red light on and buzzer (short intervals)

Reverse charging protection: Red light on and buzzer (slow & short)

Short circuit protection: Red light on and buzzer (1 long 2 short)


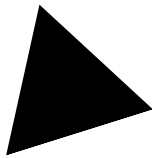
High temperature protection: Red light on and buzzer (rings quickly)

Start timeout protection: Red and green light on

Low voltage protection: Red light on and buzzer (1 long 2 short)

Relay adhesion alarm: Red light on and buzzer (continuous)

Ready to connect to battery: Red and green light flash alternately





CONTACT



JS80

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