

**180V Series Portable Multi-function Vehicle
Power
User Manual**



Please read this manual before using this product. Failure to do so can result in serious injury.

CONTENT

Part 1	SAFETY & MAINTAINANCE.....	2
Part 2	PRODUCT INSTRUCTION	3
Part 3	HOW TO JUMP START YOUR CAR	5
Part 4	HOW TO CHARGE THE UNIT.....	6
Part 5	HOW TO USE Multi-Level VOLTAGE DC OUTPUT	7
Part 6	TECHNICAL PARAMETERS.....	8

Part 1 SAFETY & MAINTAINANCE

GENERAL SAFETY RULES

⚠ WARNING!

READ AND UNDERSTAND ALL INSTRUCTIONS

Failure to follow all instructions listed below may
Result in electric shock, fire, and/or serious injury.
SAVE THESE INSTRUCTIONS

Thanks to use our T80X series Portable Vehicle Multi-Function Emergency Power and
before using it, please read this manual carefully for reference.

⚠ WARNING

Before using this device, please read the manual carefully and observe the following
regulations

- ★ Strictly prohibit disassembling this device without authorization.
- ★ Strictly prohibit placing this device near high magnetic field, which will damage it and make it can't work well.
- ★ Strictly prohibit making the device exposed to the rain or becoming damp, which will cause interior short circuit and make the batter emit heat, smoke, be out of shape, damage or even explode.
- ★ This device has large current discharge characteristic, please prevent children from operating or playing it.
- ★ Please fix this device well when placed in the back of a car to avoid affect drive safety.
- ★ This device is battery products so you'd better charge it once within 3 month or change it once in half a year at least to extend the working life of lithium batteries.
- ★ Strictly prohibit throwing this device in fire, which will cause blast.
- ★ Please deal with the scrap device according to related rule. Don't deal with the built in battery as house refuse, which will cause blast and pollution.

Part 2 Product Introduction

2.1 Appearance Description

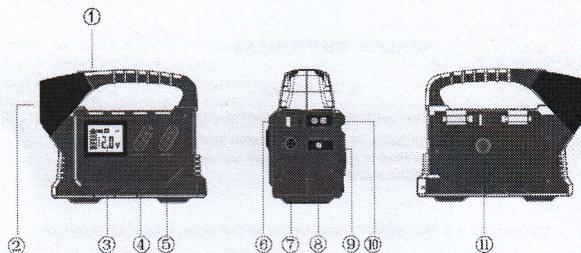


Diagram 1 Front and profile side description

- | | | |
|---------------------|---------------------|------------------------------|
| 1. Torch ON/OFF | 5. DIM/ENTER | 9. LED warning light |
| 2. Torch | 6. USB output | 10. EC5 output |
| 3. Display | 7. DC 12/19V output | 11. LED warning light ON/OFF |
| 4. ON/OFF/DC SELECT | 8. DC input | |

2.2 Display Description

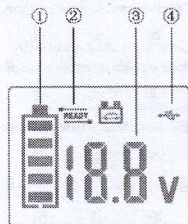




Diagram 2 LCD display description

2.3 KEY and Function Description (Setup Winzard)

2.3.1 /DC SELECT : Power Switch /DC Voltage select

Please press the  /DC SELECT key to start portable power function when the unit is shut down. After starting up the unit, please press the key shortly then you can change the DC voltage output among 12V/19V, and the display will be flashed, press

DIM/ENTER key to confirm the output voltage and the display will be stopped flashing. Press the  /DC SELECT key for a long time (about 3 second) to turn off the unit.
Note: There is no DC output during the display flash

2.3.2 **DIM /ENTER**: LCD backlight Switch/DC output voltage confirm

During power on state, press **DIM /ENTER** to turn on/off backlight, and in Voltage select state, press **DIM /ENTER** to confirm the voltage DC output.

2.3.3 : Torch LED Control Key

Press the key around 3 second to start torch LED, the default setting is Normal mode. If keeping press shortly, you can choose 2 mode: Normal/Flash. You can shut down the torch LED by press the key around 3 second.

Mode Description: Normal means normal brightness.

Flash means Torch LED keep flash with frequency of 1Hz

2.3.4 : LED Warning light switch

Press the key around 3 seconds to start LED Warning light function. The default setting is Traffic Fault Warning mode. If keeping press shortly, you can choose 3 mode: *Traffic Fault Warning/SOS/White Light Illumination*. You can shut down LED Warning light function by press the key for 3 seconds or closing the LED Warning light.

Mode Description:

Traffic Fault Warning means LEDs keep flash at frequency of 0.5Hz, red LED flash twice and then white LEDs flash twice.

SOS means white LEDs keep flash 3 times at frequency of 1Hz then red LEDs keep flash 3 times at frequency of 0.5Hz.

White Light Illumination means white LEDs keep lighting.

Note:

- I. Please shut off Warning LED Light first and close the cover after used.
- II. The unit only support Torch and Warning LED light in one time.

Part 3 How to Jump Start your car

⚠ Warning: Jump-starting a car can cause serious injury if you are not careful. If you are unsure of what you are doing at any point, do not attempt to jump-start your car. Call your friendly roadside towing service for help instead.

When your car battery is power-lack or the temperature is too low to start your car, you can use this device to start your car as the following steps:

Step 1: Please ensure the engine battery is 12V (if 6V or 24V - Do not use with the unit). Check the battery capacity level in the unit and then simply attach the jump leads (red to red(+), black to black(-)) to battery and the unit will automatically start delivering continuous power. If your connection is inverse or unreliable, the unit can not work. If your connect is right, The LCD screen will show the related information and the built in buzzer will long sound twice and then sound DIDI! shortly twice every two second, which means that the car is ready for start and please start your car soon.



Diagram 3 Current output connect with car battery

Note:

- I. Red cable connect with positive pole.
- II. Black cable connect with negative pole.

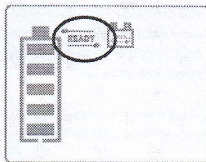



Diagram 4 LCD Information after right connection

Step 2: After right connection, you can start your car in 60 second. If you haven't do that in 60 seconds, The unit will turn off automatically. You have to break the connection between the unit and the car battery and then connect them again to start the jump function for 60 seconds. After starting your car, please break the connection between the unit and the car battery and remove the alligator clip from the rear port. The unit can automatically identify start-jump status and power-off automatically. If the unit can not identify start-jump status, it will power-off automatically in 60 seconds. Another way, You

also can shut down the device by pressing  /DC SELECT* more than 3 seconds.

CAUTION:

- 1 The unit only can be used for jump-start car in emergency, it can't replace the car battery.
- 2 Please connect the alligator clip to car battery correctly: red to red and black to black.
- 3 When Voltage of the built in lithium battery is lower than the lowest Voltage to start-jump a car, the unit can't work.
- 4 When the car battery voltage is lower than 3V, the unit will treat the car battery as bad one and can't start automatically.
- 5 When you disconnect the unit and the car battery, please try to prevent the positive and negative touching otherwise there would be spark causing potential safety hazard. If you connect the positive and negative unconsciously, the unit will power-off automatically.
- 6 Please choose the right mode for your car.

Part 4 How to charge the unit

Before initial use, it is necessary to completely charge the unit.

4.1. Charging the unit in Car: Please connect the unit and Car Cigarette Lighter with DC cable then the unit LCD screen will show the scroll bar, which shows the unit is being charged. If the scroll stop rolling, the charging is completed.

4.2. Charging the unit in home: Please connect the unit with 12V/1A AC adaptor to charge the unit and LCD screen will show the scroll bar, which shows the unit is being charged. If the scroll stop rolling, the charging is completed.


Note:

Always charge on concrete or tile, not on surfaces that are flammable or surfaces that could get heat damaged.




Diagram 5 Charging in the car

Part 5 How to use Multi-level Voltage DC Output

5.1. Power on-off: Please press  /DC SELECT key shortly to power on the unit when the unit is power off, please press the key for a long time (about 3 seconds) to turn off the unit

5.2. Multi-level Voltage DC Output: The unit can support multi-level DC voltage output apply for many kind of notebook or other consumer electronics device. In power on state ,

press  /DC SELECT key shortly to select output voltage ,the display will be flashed when you adjust the voltage and the display will be stopped flashing when you press DIM/ENTER key to confirm the output voltage

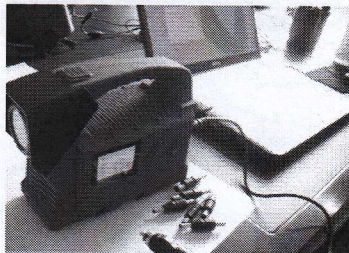


Diagram 6 Multi-Level DC Voltage Output

5.3. USB Output: USB output standard is 5V/2.1A current(max). USB output can charge standard USB devices. Please use the original USB line supplied by your device manufacturer to charge your device. The unit can charge for many brand mobile phone, PDA, MP3, MP4, PSP, MID, GPS, Digital Camera, Bluetooth earphone, iPhone, iPod, iPad and so on.

Note:

- I. There is no DC output during the display flash
- II. If there is no load in one minute the unit will automatically power off.

Part 6 Technical Parameters

Battery Capacity	3350mAh 11.1V $\pm 5\%$ (36.6Wh) Li-polymer
Cycle life	>300 times
EC5 output	8-12V /300A(max) Peak Cranking Power
DC output	12V /3.5A(max)
	19V/3.5A (max)
USB output	5V/2.1A(max)
DC input	12V/1A
Charging time	~4h(@1A charging current)
Torch power	3W
Warning LED light power	1W
Working temperature	-20°C-60°C
Storage temperature	-20°C-60°C
Product net weight	1.0Kg
Product size(LXWXH)	190x90x150mm