



HU6514

LITHIUM COBALT HEAVY DUTY JUMP STARTER

PORTABLE EMERGENCY POWER SUPPLY

USER MANUAL





ABOUT JUMP PACK

The HULK Professional Jump Pack with high discharging rate of Lithium-ion Cobalt batteries has powerful performance for Heavy duty Semi-trucks, buses, airplanes, mine machines, farm & construction equipment.

Works with most 12V and 24V gasoline or diesel power vehicles.

Attention

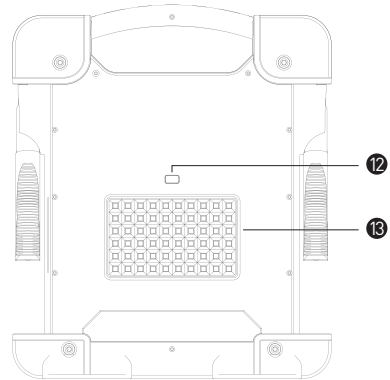
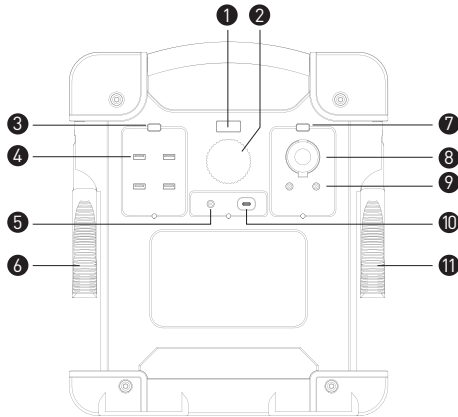
Fully charge the unit before first use

Charge the unit 100% with the built-in AC wall charger (Type-C). Fully charge the unit before extended storage.

LITHIUM BATTERY

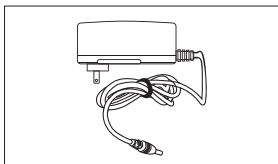
FUNCTION INTRODUCTION

Performance

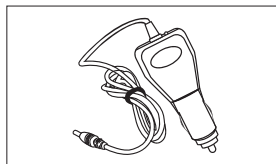


1. LED display screen
2. Master ON/OFF switch
3. ON/Off for USB output
4. USB output ports x 4
5. DC charging port
6. Positive start clip
7. ON/Off for cigarette and DC output
8. Cigarette output port
9. DC output port x 2
10. Type-C port
10. Negative start clip
11. ON/Off for LED flashlight
12. LED flashlight

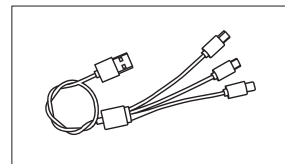
Product Accessories



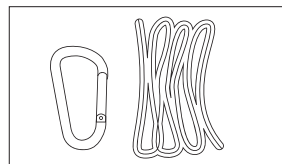
18V 100-240V
AC Wall Charger



Car Charger



3 in 1 Mobile Adapter



Safety Strap



User Manual



TECHNICAL SPECIFICATIONS

Battery Type	Lithium-ion Cobalt
Capacity	80,000mAh/296Wh
Starting Current	12V - 3,000A 24V - 2,000A
Peak Current	12V - 15,000A 24V - 6,000A
Unit Dimensions	356 x 128 x 418mm
Unit Weight	8.35kg
DC Input	18V 2A
Input Type-c	5V / 9V / 12V / 15V / 20V Max 30W
USB Output x 4	3.7-12V Max 18W QC3.0
Type-C Output	5V / 9V / 12V / 15V / 20V Max 30W
DC Output x 2	12 - 16.8V 4A
Cigarette	12 - 16.8V 4A
Operating Temperatures	-20°C - 80°C
Life Time	>1,000cycles

LITHIUM BATTERY

JUMP PACK CONTROL PANEL



Master ON/OFF Switch

The LED display illuminates when the unit is on.

Turn the Master ON/OFF switch to the 12V position to start the 12V system, turn the Master ON/OFF switch to 24V position to start the 24V system.



4 x USB Ports

Use the USB ON/OFF switch to activate the Smart USB output.

Use these USB ports to operate or charge USB accessories (18W Maximum).



Charging Ports

Use these ports to charge the Jump Pack.

Use the Type-C port to operate or charge Type-C accessories (30W Maximum).



12V DC Ports

Use the DC 12V ON/OFF switch to activate the DC port and cigarette socket. Use the 5.5mm DC ports and cigarette socket to operate or charge 12-16.8V accessories.

Note: Press and hold the DC 12V ON/OFF switch for 3 seconds when your vehicle cannot be started normally. Please see the "ERROR CODE INDICATORS" in the manual.

Attention

When the input and output port is activated, the corresponding yellow indicator light is always on, flashes slowly when loading, and flashes quickly when error. When the yellow indicator light flashes quickly, please unplug the charging data line immediately, and short press the WARNING! ON/OFF switch where the error occurs.



JUMP PACK STARTING GUIDE

1. Personal Safety & Battery Preparation

- A) Please use safety glasses when jump starting any vehicle. Remove personal metal items such as watches, rings and bracelets when working with a lead-acid battery. It may cause personal injury.
- B) Please refer to your vehicle's owners manual for proper jump start connection location.
- C) Identify the positive (RED) and negative (BLACK) terminals before connecting the clamps. Make sure battery terminals are clean and free of debris for safe connection.

2. Jump Pack Preparation

- A) Place the Jump Pack on a flat service according to your vehicle voltage, turn the Master ON/OFF switch to 12V or 24V system (ensuring that the Jump Pack has a 65% charge for Heavy vehicles or 50% charge for light vehicles)

3. Make The Connection

- A) Disconnect the Red clamp and the Black clamp from the Jump Pack docking station. Note: LED should be flashing Red and Green "8s" (search for battery mode.)
- B) If your vehicle is equipped with jump posts, connect the positive Red clamp to the positive jump post. Connect the negative Black clamp to the vehicle ground. Otherwise, connections will be made on the battery.
- C) If connections are made on the battery, connect the positive Red clamps to the positive (+) Red terminal on the battery and connect the negative (-) Black clamps to the negative Black terminal on the battery. Once the battery is detected and is connected correctly, the LED indicator will show a solid Green "8". Once the "8" is a solid Green, you must attempt to start the vehicle within 45 seconds or the Jump Pack will time out. If time out occurs, you must turn off the unit and repeat the process.

1. Start The Vehicle

- A) Ensure a proper connection. If properly connected, the unit will display a Green "8" on the LED. If the LED displays a Red "8", then there is an error that needs to be addressed. Please see the "Troubleshooting Guide" and the "LED Indicators guide" in the manual.
- B) Turn the ignition key to the on position and start the engine.
- C) Once started, turn off the unit and disconnect the clamps from the battery and re-attach the clamp to the docking station and turn off the unit.

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JUMP PACK CONTROL PANEL



Step One

Place unit on a flat surface before use. Next, connect the clamps: Red clamp (+) to Red terminal (+) and Black clamp (-) to Black terminal (-).



Step Two

Turn the Master ON/OFF switch to the 12V or 24V system (according to your vehicle voltage) and make sure ignition key is in first position. When you get a Green "8" on the LED, the cable are active and you may start your engine.

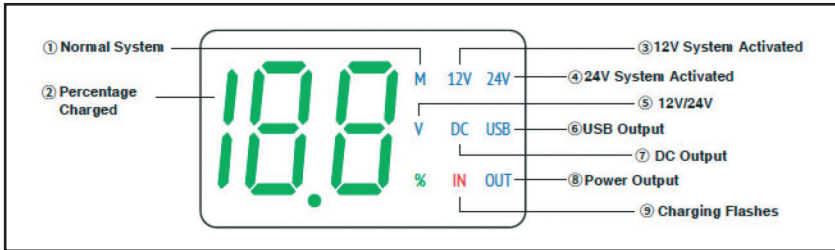


Step Three

Once you have started your engine, turn off the Jump Pack, remove the clamps from the vehicle battery, and store your Jump Pack unit.



JUMP PACK LED DISPLAY



1) Normal System

Turn the Master ON/OFF switch to the ON position to start the Jump Pack display. Normal System status during output.

2) Percentage Charged

Displays the Jump Pack percentage charge.

3) 12V System Activated

Turn the Master ON/OFF switch to the 12V position to start the 12V vehicle. The output function is not available when 12V system is activated.

4) 24V System Activated

Turn the Master ON/OFF switch to the 24V position to start the 24V vehicle. The output function is not available when 24V system is activated.

5) 12V/24V

When switching to 12V or 24V, the indicator lights up.

6) DC Output

The "DC" indicator flashes whenever a DC port is used to charge or power a DC accessory using one or both of the DC ports.

7) USB Output

The "USB" indicator flashes whenever a USB port is used to charge or power a USB accessory using one or all of the USB ports.

8) Charging Flashes

The "IN" indicator flashes whenever the unit is being charged by the 18V 100-240V AC wall charger or the Type-C port charger.

9) Power Output

The "OUT" indicator flashes when you are using the unit to power an accessory via the Type-C.

LITHIUM BATTERY

ERROR CODE INDICATORS

E0

Low Voltage

The voltage of single-cell battery is between 2.4V~1.1V, please connect the charger, press and hold the USB ON/OFF switch until the E0 is not displayed.

E1

Reverse Polarity

Reverse polarity protection activated. Turn off the Jump Pack. Check the clamp connections. Make sure the red clamp goes to positive and the back clamp goes to negative. Then try again.

E2

Timed Out

The Jump pack will time out after 45 seconds when connected to a vehicle and is activated. Turn off the Jump pack and then back on.

E3

Over Temperature

High temperature protection activated. Turn off the Jump Pack and wait for it to cool down before using again.

E4

Low Temperature

The Jump Pack is below optimal operating temperature. Performance may be decreased. If unable to start vehicle, warm up the Jump pack and try.

E5

Over Current

Over current protection activated. When the starting current power of the vehicle is too large, the starting time is too long or the number of consecutive starts are too many, please keep the unit full charge then try again.

E6

Low Current

Low current protection activated. Turn off the Jump Pack. Check the clamp connection on the battery, make sure it is clean and free of pain or corrosion, then try again. If this error persists, turn on the vehicles headlights or blower fan then try again. If those steps do not resolve the problem, press and hold the DC 12V ON/OFF switch for 3 seconds until it beeps and the display shows a green "8".

E7

Short Circuit

Short circuit protection activated. Turn off the Jump Pack, check the clamp connections to make sure that there is not a short circuit, then try again.



LED INDICATORS



Normal Screen

Normal ON/OFF screen. Hold output ON/OFF for 16V.



Jump Pack Activated and Connected

Indicates the vehicle is ready to be jump started.



Search Mode

The unit is searching for a battery and current in order to activate the jump starting.



Red "IN" Symbol Flashing

The unit is plugged in and charging.

TROUBLESHOOTING

1. Jump Pack Charged

For Heavy Trucks make sure the unit has at least 65% charge. For light vehicles make sure the unit has at least 50% charge.

2. Jump Pack On/off

Turn the Master ON/OFF switch to the 12V or 24V system (according to your vehicle voltage) when you start the vehicle.

3. Activation Led Indicator (8's)

Is the LED blinking Red to Green or is it a solid Red or Green? Solid Green "8" is a correct connection and a solid Red "8" is an error. With a Red "8" no current will flow to dead battery.

4. Alternating Red & Green (8's)

If the unit starts flashing between Red and Green after a solid "8", the unit is timed out. Turn off the unit and then turn back on. You must attempt to start the vehicle within 45 seconds of a solid Green "8".

5. Cable Alarm

Is there a beeping indicator alarm during connection? Red "E" and beeping is an error code. Immediately disconnect the clamps, then refer to the ERROR CODE INDICATORS.

LITHIUM BATTERY

6. Key Position

Ensure that the ignition key/button is turned to first position to detect connection. This will help activate the unit.

7. Can't Get The Jump Pack to Connect?

If the Jump Pack does not show a green "8" when connected to a dead vehicle:

- (1) Make sure to turn on the Jump Pack before connecting to the dead vehicle.
- (2) Verify the clamps are connected properly.
- (3) Turn on lights or the radio.
- (4) Verify that the dead vehicle is a correct (12V/24V) system.
- (5) Verify that the Jump Pack is adequately.
- (6) Key Position?

If those steps do not resolve the problem, press and hold the DC 12V ON/OFF button for 3 seconds until it beeps and the display shows a green "8".

8. Manual Disconnect Switch

(Truck option) Turn the manual disconnect switch "ON". Location of disconnect switch varies by truck manufacturer.

9. Clean Terminals

Make sure that the terminals are free of plastic caps, paint, rust, dirt, or grease that can hinder the connection.

10. Jump Start Port

Make sure that the terminals are free of plastic caps, paint, rust, dirt, or grease that can hinder the connection.

11. Short Battery

If the battery is sulphated, it will be shorted and will need to be replaced. Sulphated batteries cannot be charged or jump started.

12. Dead Battery

If the vehicle battery is completely dead; it will show voltage below 5V. In this situation the device will not activate and the battery must be replaced.

WARNINGS

- 1) Keep out of reach of children.
- 2) Do not damage, drop or crush this product. Do not attempt to use this product if it has been dropped, punctured, run over or damaged in any way including damage to the clamp or cables.
- 3) Do not insert foreign objects (including fingers and metal objects) into any input or output ports on the Jump pack. This item may short circuit causing personal injury or fire.
- 4) Do not expose unit to rain or snow. Do not charge this item in wet conditions.
- 5) Do not use this product in explosive environments (dust, bilge, gaseous fumes or flammable materials) or in the presence of flammable materials such as carpeting,



paper, cardboard or upholstery etc.

- 6) Do not burn or incinerate this product.
- 7) Use only recommended attachments. Use of attachments NOT sold by HULK Professional or included with the Jump Pack may result in a risk of fire, electric shock or injury to persons or damage property.
- 8) Do not disassemble this product. Refer servicing to qualified service professional when service or repair is required. Failing to adhere to this may result in risk of fire or electric shock.
- 9) Never charge a frozen battery.
- 10) Store in a cool dry location and do not expose the unit to temperatures over +60°C or below -15.6°C.
- 11) The Jump Pack is not designed to be used in place of a vehicle battery.
- 12) If the product malfunctions or is having problems, discontinue use and contact the seller for inspection.
- 13) The unit should be kept in the OFF position at all times when it is not in use.

Attention

Working in the vicinity of a lead-acid battery is dangerous. Lead acid batteries generate and vent explosive gases during normal operation. Always properly ventilate bilge or engine compartment before attempting to jump start any engine. DO NOT use this product near or in the presence of propane tanks, natural gas or any other explosive fumes. Also follow instructions and caution markings on engine and listed in vehicle manual to reduce risk of battery explosion.

1) Do not intentionally short the jumper cables

Your Jump Pack is equipped with short-circuit protection in the event you accidentally short-circuit the jumper cable. Do not intentionally short-circuit the jumper cables.

2) Warning! Risk of electric shock or fire

Discontinue use of this product if it is damaged in any way.

3) Storage

The Jump Pack may be stored virtually anywhere, and in any position. However, take precautions to ensure that the positive and negative clamps do not come into contact with each other or a common metal surface. We recommend storing the Jump Pack in the box in which it was originally received. Always be sure to re-wrap cables and re-holster clamps after each use and prior to storage. Always store the unit with the Master ON/OFF switch in the OFF position.