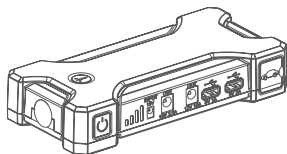


PORTABLE POWER SUPPLY

HYPS-400

Please read and understand all important safety and operating instructions before using this charger. In addition, please read and follow all battery and vehicle manufacturer's instructions and cautionary markings.

HYP5-400



We are still constantly improving this portable power supply, therefore, some parts of this portable power supply may be changed in order to achieve the better quality, but the main functions and operations will not be alternated and changed. Your understanding would be greatly appreciated.

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1. SAFETY

- 1) Use the HYPS-400 for jumpstarting a 12V LEAD-ACID battery only. Do not attempt to jump-start a vehicle with a non-rechargeable or defective battery.
- 2) Working in vicinity of a lead-acid battery is dangerous. Batteries generate explosive gases during normal operation. Use in well-ventilated area. Battery acid can cause permanent blindness. Avoid touching eyes while working near battery.
- 3) Do not smoke, strike a match, or cause a spark in vicinity of battery or engine. Avoid explosive gas, flames and sparks.
- 4) Remove all personal jewelry, such as rings, bracelets, necklaces, and watches before jumpstarting operations. These items may produce a short-circuit that can cause severe burns.
- 5) To avoid damage to the vehicle's electrical system, do not use the HYPS-400 on a vehicle that has no battery installed.
- 6) Use of an accessory not recommended or sold by the manufacturer may result in a risk of fire, electric shock or injury to persons. Do not operate with damaged accessory(s).
- 7) Locate the HYPS-400 as far away from battery as jumper cables permit. 8) Do not expose to rain or wet conditions.
- 9) To reduce the risk of damage to electric plug and cord, pull by the plug rather than the cord when disconnecting.
- 10) Operate with caution if the jump starter has received direct hit of force or been dropped. Have it checked and repaired if damaged.
- 11) Any repair must be carried out by the manufacturer or an authorized repair agent in order to avoid danger.

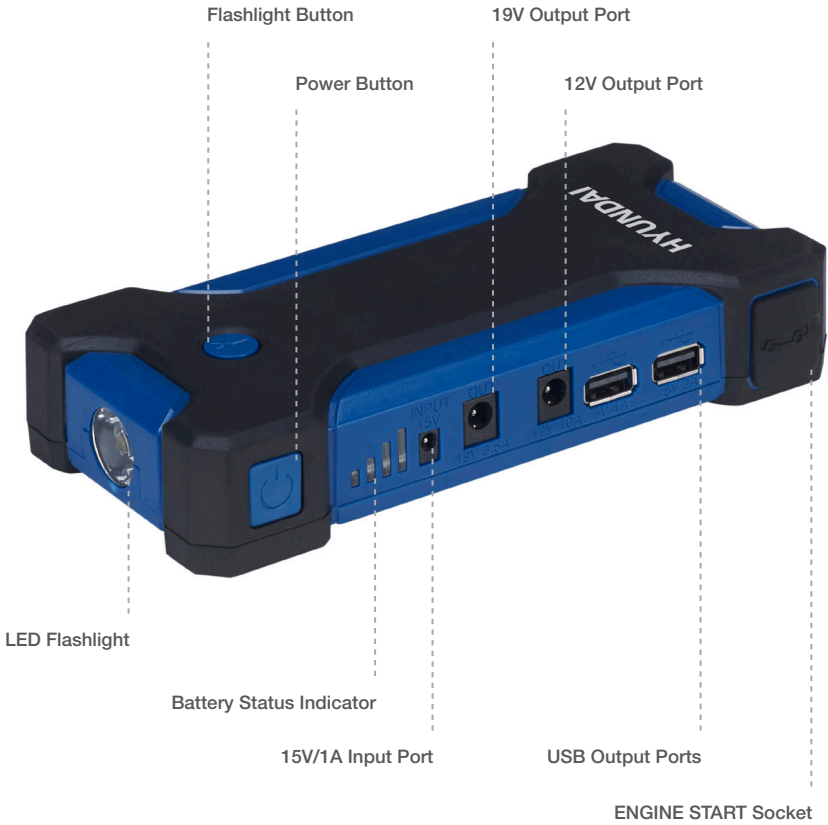
2. ABOUT HYP5-400

It features low voltage protection (for HYP5-400 itself), spark proof, reverse polarity protection and short circuit protection. This item can instantly jump start most single battery vehicles, up to 30+ (over 30) times on a fully charge. The HYP5-400 is also equipped with USB power output, 19VDC power output, 12VDC power output and LED flashlight.

Technical Specification:

Battery Type	Lithium-ion Polymer
Battery Capacity	8100mAh
Starting Current	200A
Peak Current	400A
Jump Start	up to 3.0L Gas Engine
USB Output	5V/1A, 5V/2A
19V Output	19V/3.5A for Laptops
12V Output	10A Max
LED Flashlight	3W
Operating Temperature	-30°C ~ +50°C
Charging Temperature	0°C ~ +40°C
Storage Temperature	-20°C ~ +35°C (for 3 months)

Product Layout:



3. ABOUT SMART JUMPER CLAMPS



4. CONNECTING TO THE BATTERY

- 1) Identify polarity of battery posts. The positive battery terminal is typically marked by these letters or symbol (POS,P,+). The negative battery terminal is typically marked by these letters or symbol (NEG,N,-).
- 2) Do not make any connections to the carburetor, fuel lines, or thin metal parts.
- 3) Identify if you have a negative or positive grounded vehicle. This can be done by identifying which battery post (NEG or POS) is connected to the chassis.
- 4) For a negative grounded vehicle (most common): connect the RED POSITIVE jumper clamp first to the positive battery terminal, then connect the BLACK NEGATIVE jumper clamp to the negative battery terminal or vehicle chassis.
- 5) For a positive grounded vehicle (very uncommon): connect the BLACK NEGATIVE jumper clamp first to the negative battery terminal, then connect the RED POSITIVE jumper clamp to the positive battery terminal or vehicle chassis.
- 6) When disconnecting, disconnect in the reverse sequence, removing the negative first (or positive first for positive ground systems).

5. JUMP STARTING

- 1) This unit is only for emergency use, not for frequent commercial use! ENGINE START socket is ALWAYS activated! Do not attempt to jumpstart your vehicle when the HYPS-400 battery capacity is below 25% (battery status indicator: 1 solid LED lit).
- 2) Turn off the vehicle ignition and all accessories (radios, lights, air conditioners, etc.), and disconnect electronic devices.
- 3) Connect the jumper clamps to the correct polarity battery terminals.
- 4) Connect the EC5 plug of jumper cables to the ENGINE START socket of HYPS-400.
- 5) Try starting the vehicle (turn on the ignition switch). Most vehicles will immediately start. Stop if the vehicle does not start after 5 seconds of engine cranking. The jumpstart feature is designed for short term operation only, and more than 5 seconds may cause damage to the unit. Allow the jump starter to cool down for at least 3 minutes after each jumpstarting.
- 6) Disconnect the cable from the HYPS-400 immediately after engine starts, and then remove from battery terminals.



“BOOST” Mandatory Operations:

- 1) If with correct connection between Jump Starter and vehicle battery (Red LED keeps on and green LED is off), press and hold BOOST button for 3 seconds (after a buzzer sound, the green LED is on and red LED is off). Usually this is because the vehicle battery capacity is rather low.
- 2) Start the engine (same method as the normal operations in Page 6).

▲ Cautions:

- 1) Under normal circumstances, do not use the mandatory operations.
- 2) The spark proof, reverse polarity protection and short circuit protection features are disabled after Boost button is pressed. Pay very close attention to the polarity of the battery before using this mode.
Do not allow the positive and negative battery clamps to touch or connect to each other as the item will generate sparks and high heat if not used properly.

LED and Buzzer Communication:

No.	Red LED	Green LED	Buzzer Sound	Condition
1	On	Off	One sound	Jumper cable and HYP5-400 are connected.
2	Off	On	One sound	Jumper cable and vehicle battery are connected. Ready to start the engine.
3	Slow flash	Off	No buzzer	Lithium battery voltage in HYP5-400 is rather low.
4	Slow flash	Off	No buzzer	Have not turned on the ignition switch within the regulated time. To resolve this, you need remove clamps from vehicle battery, and connect again when No.1 condition occurs.
5	Fast flash	Off	Fast buzzer	Red and black clamps are connected with each other.
6	Fast flash	Off	Fast buzzer	Reverse connection of clamps.
7	Off	Fast flash	No buzzer	Engine is started.
8	Off	Fast flash	No buzzer	Vehicle's battery voltage is higher than Jump Starter's.

6. CHARGING

This product is partially charged from the manufacturer. Fully charge the unit immediately after purchase. In order to prolong the product life, be sure to fully recharge the unit after each jumpstarting, or every 3 months even if this unit has not been used. If battery voltage in the HYPS-400 is too low, this item will shut off to prevent damage to itself. Recharge the unit as soon as possible to be activated and fully charge it to ensure long battery life. In addition, we recommend not to charge and discharge the unit at the same time.

AC Charging:

- 1) Insert AC charging adapter into charging jack of the unit.
- 2) Plug the other end of AC charging adapter into a wall socket.
- 3) Fully charge the unit.
- 4) When charging is complete, unplug the AC charging adapter from the wall socket first, then from the charging jack on the HYPS-400.

DC Charging in Your Vehicle:

- 1) Turn the vehicle engine on.
- 2) Insert the DC charging adapter into the charging jack of the unit.
- 3) Plug the other end of DC charging adapter into vehicle's cigarette lighter socket.
- 4) Fully charge the unit. Engine must keep running during entire charge.
- 5) When charging is completed, unplug the DC charging adapter from the vehicle first, then from the charging jack on the HYPS-400.

Charging Time:

Charging time will differ based on the discharge level and the power source used. If charging begins from 1 Flashing LED to full charge, it approximately takes 4.3 hours for AC charging.

Battery Status Indicator:

The indicator LEDs will flash one by one during the period of charging. Different number of indicator LEDs shows different storage level of HYPS-400.

Indicator LEDs.	Unlit	1 Flashing	1 Solid	2 Solid	3 Solid	4 Solid
Storage Level	0%	< 5%	5% ~ 25%	25% ~ 50%	50% ~ 75%	75% ~ 100%

7. USB POWER

Connect the USB device to the HYPS-400 with either the original cable or the included multi-tip cable (better use original cable of Apple® for Apple® products). Press Power button to start USB power. When disconnected, the HYPS-400 will automatically shut off. The number of times you can recharge a USB device will vary between devices.

8. SUPPLY TO 19V LAPTOPS

Select the appropriate input tip and connect the HYPS-400 with your laptop. Press Power button to start 19V/3.5A power. When disconnected, the HYPS-400 will automatically shut off. The number of times you can recharge a laptop will vary between devices.

9. SUPPLY TO 12V DEVICES

The HYPS-400 can run/charge 12VDC appliances that draw 10 amps or less. Two Options as follows:

- 1) Connect the HYPS-400 to 12V devices with optional accessory (This item does not include the accessory). Press Power button to start 12V power. When disconnected, the HYPS-400 will automatically shut off.
- 2) Connect the HYPS-400 to 12V devices by the included accessory. Do not need press Power button as the EC5 12VDC output is ALWAYS activated. When battery voltage of 11 HYPS-400 is too low, 12V devices will stop running/charging.

10. FLASHLIGHT

Press Flashlight button to start flashlight. Press once to switch lighting modes:
Steady On – Strobe – SOS – Off.

EC Declaration of Conformity



We :

HYUNDAI Corporation

25, Yulgok-ro 2-gil, Jongno-gu, Seoul 03143 Korea

Declare that the product detailed below :

JUMP STARTER & PORTABLE POWER SUPPLY

MODEL : HYP5-400

Satisfies the requirements of the Council Directives :

EMC Directive 2014/30/EU

RoHS Directive 2011/65/EU

and conform with the norms :

EN 61000-6-1:2007

EN 61000-6-3:2007/+A1:2011

General Manager

A handwritten signature in black ink, appearing to be 'Yoonsung Lee', written over a horizontal line.

Yoonsung Lee

Project Manager

A handwritten signature in black ink, appearing to be 'Donghoon Park', written over a horizontal line.

Donghoon Park

Date : 2018.08.20

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