

..omnicharge

Omni 20
USER MANUAL

www.omnicharge.co

Before Using

Please read this manual before using the device to ensure safe and proper use.

WARNING:

Failure to follow these safety instructions can result in fire, electric shock, or other injuries, or damage to your Omnicharge or other property. Read all safety information below before using your Omnicharge.

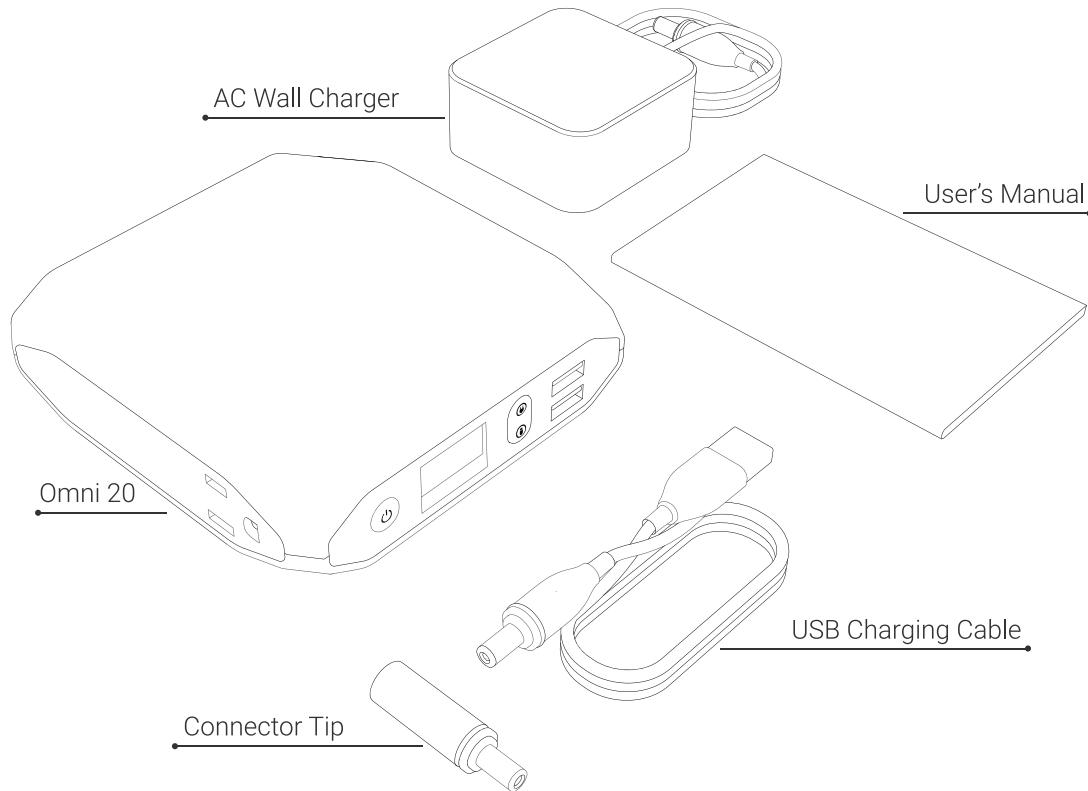
Omnicharge is in protective shipping mode.

Plug into power source and fully recharge before first use.

What's in the box?

1. Omni 20
2. AC Wall Charger
3. Connector Tip for Universal Charging (Barrel DC Input)
4. USB Charging Cable
5. Barrel-to-Barrel cable for laptops (Barrel DC output)

• Only available for DC output upgraded unit



Note:

The items and accessories supplied with the device may vary depending on the country and region. The supplied accessories are designed only for this device and may not be compatible with other devices. Technical specifications and appearances are subject to change without prior notice. Only use Omnicharge-approved accessories.

Using unapproved accessories may cause malfunctions, which are not covered by the warranty. Availability of all accessories are subject to change.

For more information about accessories, please visit www.omnicharge.co

Technical Specification

AC/HVDC Outlet

AC Output: 120V, 60Hz, modified sine wave
(230V, 50Hz, modified sine wave for European Version)

HVDC Output: 150V (300V for European Version)

Continuous Power: 100W

Peak Output Power: 105W (1s)

Maximum Output Surge Power: 150W (0.1s)

USB Output

Port1: 5V / 3A

Port2: Qualcomm Quick Charge 3.0; $5V/3A == 9V/2A == 12V/1.5A$

Backwards compatible with QC2.0/1.0

5.5 x 2.1mm Barrel Port

Input: 4.5V - 36V, up to 3A (2W - 45W)

Output (optional): Adjustable 1V - 24V with 0.1V Accuracy, up to 3.5A (70W max)

Qi Wireless (optional)

Output: 5V, up to 1A (5W)

Standard: WPC certified Qi Standard

Battery

Cell Dimension: 18650

Capacity: 6 cells, 73Wh (20400mAh at 3.6V)

Lifecycles: 500 times (depleted to 70% of original capacity)

Shelf-life: One (1) year after full charge

General

Chainable: No

Weight: 1.4 lb (630 g)

Dimension: 5.0x4.8x1.1 inches (12.7x12.2x2.7 cm)

Warranty: Limited One (1) Year

Certifications: FCC, CE, ROHS

Operating Temp: Charging 50° to 113° F (10° to 45° C)

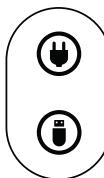
Discharge -4° to 140° F (-20° to 60° C)

Buttons



Power Button

- Quick press to power on.
- Long press to power off.
- Double press to enter menu.

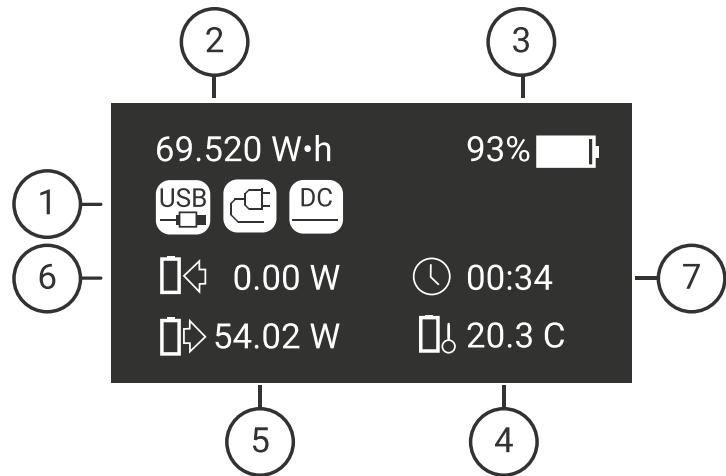


AC/HVDC On and Off

USB On and Off

Screen

OLED screen with real time metrics.



1. Icon display (see below)
2. Battery remaining capacity
3. Battery Level (+/- 1%)
4. Battery Temperature
5. Battery Power Output (watt)
6. Battery Power Input (watt)
7. Charge time remaining

• *Calculated based on optimal level of power input for your device and Omnicharge's battery level*

Status Icons (Active when displayed)



AC output



HVDC output



Adjustable DC output



USB output



Qi wireless



Charging input



Optimal charging



Solar charging



Silent mode



Low temperature protection



Overpower protection



Overheating protection

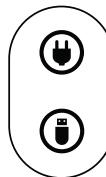


Overvoltage protection

Menu Navigation



- Double press to enter the menu
- Quick press to select



- Move Up
- Move Down

DC Output



- Last Setting
- Presets - 5V, 7.2V, 15V, 16.5V, 19V, 20V

- Set Voltage - Adjustable 1V-24V, 0.1V accuracy
- Off

AC/HVDC Output



- AC
- HVDC

USB Output and Qi wireless



- On
- Off

Screen Off

- Never
- 30 Seconds
- 1 Minute
- 5 Minutes

Auto Shut-Off (default 5 min)

- On
- Off

Temperature

- Celsius
- Fahrenheit



Silent Mode

- On
- Off

About

- Model Number
- Firmware Version
- Hardware Version
- Serial Number

Exit

Note:

Silent mode disables the fan.

Device may require longer charging times, due to overheating protection.

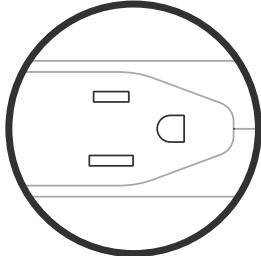
AC/HVDC Power Outlet



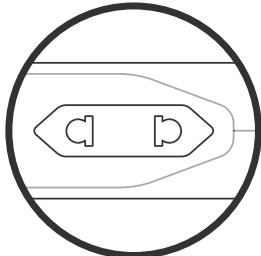
Omnicharge supports electronic devices such as most laptops, phone chargers, camera battery chargers, drones and DSLR cameras.

Caution: electric shock hazard

- Be cautious when inserting a plug into the AC outlet.
- Do not insert foreign objects into the AC outlet.
- Keep your fingers clear of the AC outlet.



120AC/150HVDC
A and B Socket Type



230AC/300HVDC
C,F and A Socket Type

Modified Sine Wave

With "modified sine wave" AC waveform, Omnicharge is capable of powering most 120V AC (EU 230V) products that use 100W or less. If this limit is exceeded the AC power will automatically shut down.

HVDC

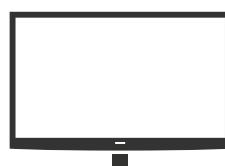
HVDC is only applicable to limited appliances, consult with your device manufacturer to check whether your device is compatible with HVDC.

Warning:

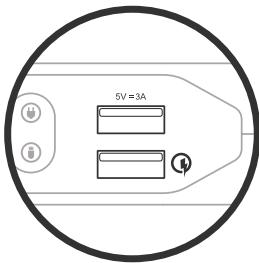
Some devices are not suitable for use with a modified sine wave or HVDC and should not be used with the Omnicharge. Any such use is entirely at the owner's risk and Omnicharge does not accept any responsibility for damage or injury resulting from such use.

Consult with your device manufacturer to check whether your device is compatible with modified sine wave and HVDC.

What you can charge:



Rapid Charging USB PORTS



USB PORT 1
5V/3A

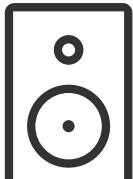
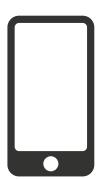


USB PORT 2
Qualcomm® Quick Charge™ 3.0

USB port 1 can output 5V/3A

USB port 2 is equipped with latest Qualcomm™ Quick Charge 3.0 technology.

What you can charge:

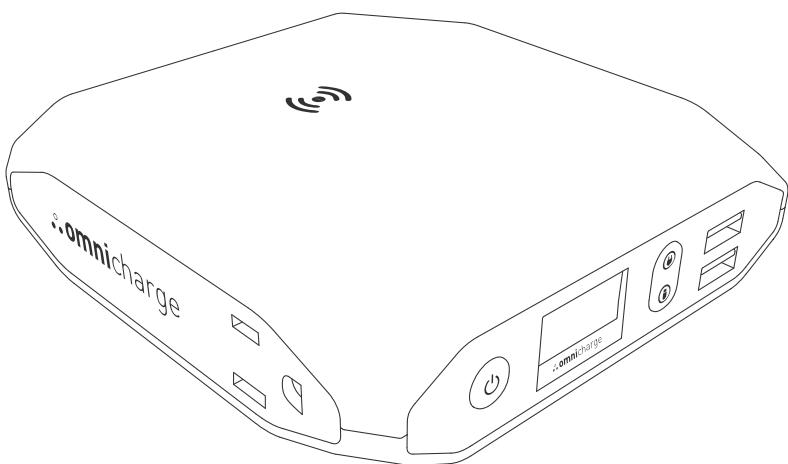


+

Qi Wireless Charging



Place a Qi-supported device in the center of the charging surface. The wireless icon will flash on the OLED screen. Proper alignment is necessary to achieve optimal charging results.



Scan the QR-Code with your smartphone or tablet and we will show you whether your device supports Qi Wireless Charging or not.

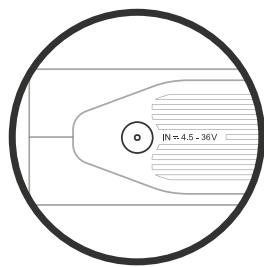
Note:

When charging devices under 1 watt, make sure to disable Auto Shut Off to prevent powering off due to low voltage protection. See Menu Navigation page for Auto Shut Off settings.

Barrel Port



MAX



DC Input 4.5V-36V

Up to 3A (2W - 45W)

Charging from the Wall

Use the included AC wall charger, or other power adapters like your laptop charger to charge your Omnicharge.

* Make sure your adapters output voltage falls within 4.5V - 36V range. Use the included Omnicharge connector tip. Omnicharge only accepts 5.5 x 2.1mm barrel plug.



Charging with AC wall charger
3 hours



Charging from USB sources
7 hours



Charging from Solar (up to 45W)
6 hours



Charging from your Car (12V)
3 hours



Charging with laptop adaptor
3 hours

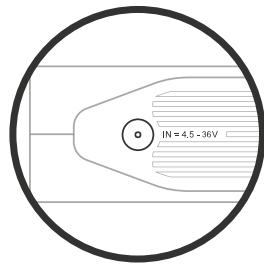
Note:

To maintain accurate battery status, Omnicharge's battery should periodically be calibrated following one full discharge/charge cycle as follows.

1. Fully discharge Omnicharge until the screen won't turn on.
2. Fully charge Omnicharge to 100%.

Barrel Port

AV



DC output

Adjustable 1V - 24V,
0.1V accuracy

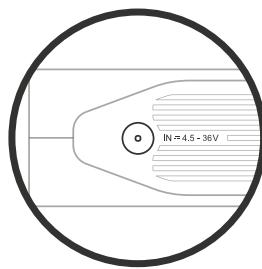
DC output utilizes brand-specific barrel cables and can replace the use of your laptop's original power adaptor.

However, some laptops have the same barrel size, but may have different charging protocols causing compatibility issues with the Omnicharge. Please visit www.omnicharge.co to view our latest compatibility list or contact support@omnicharge.co for more information.

Special Warning:

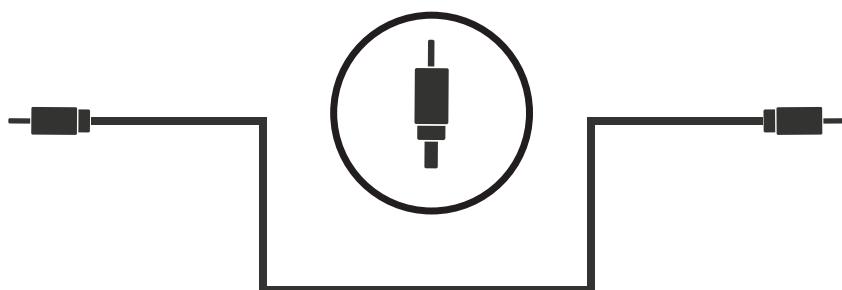
Check your devices designated voltage before using this feature. Consult with your device manufacturer if necessary.

Improper use may harm your device. User caution is advised.



Omni 20

Barrel cable
for your laptop and cameras



Laptop



DSLR



Handling and proper use

Handling

Handle your Omnicharge with care. Set up your Omnicharge on a hard, stable work surface, which allows for adequate ventilation around the power bank. Omnicharge can be damaged if dropped, burned, punctured, crushed, or if it comes in contact with liquid. Do not use a damaged Omnicharge as it may cause injury.

Small children

Keep small children away from the Omnicharge. It can generate the same potentially dangerous level of AC power as a normal household wall outlet.

Choking hazard

Some Omnicharge accessories may present a choking hazard to small children. Keep these accessories away from small children.

Repairing

Your Omnicharge is not user serviceable. Do not open or disassemble Omnicharge or attempt to repair it or replace any components. Disassembling Omnicharge may damage it or cause injury to you. If Omnicharge needs service, is damaged, malfunctions, or comes in contact with liquid, stop usage and contact Omnicharge at support@omnicharge.co. If you attempt to open it, you risk damaging your Omnicharge, and such damage is not covered by the limited warranty on your Omnicharge.

Disposal

Never dispose of lithium-ion batteries directly in the garbage. Disposal of batteries in the garbage is unlawful under state and federal environmental laws and regulations. Always take used batteries to your local battery-recycling center.

Prolonged heat exposure

Omnicharge and its AC wall charger may become very warm during peak usage. Sustained contact with warm surfaces for long periods of time may cause injury and damage. Avoid situations where your skin is in prolonged contact with Omnicharge or its AC wall charger when it is operating or plugged into a power source. Don't operate your Omnicharge on a pillow, blanket, or other soft material that can block ventilation openings. Never push anything into the ventilation openings, as doing so may be dangerous and cause your power bank to overheat. If your Omnicharge gets uncomfortably warm, power down and place it on a stable, well-ventilated work surface. Take special care if you have a physical condition that affects your ability to detect heat against the body.

Medical device interference

Omnicharge contains components that emit electromagnetic fields, which may interfere with pacemakers, defibrillators, or other medical devices. Maintain a safe distance of separation between your medical device and Omnicharge. Consult your physician and medical device manufacturer for specific information. If you suspect Omnicharge is interfering with your medical device, stop using Omnicharge.

Carrying your Omnicharge

If you carry your Omnicharge in a bag or briefcase, make sure there are no loose objects that could accidentally get inside the Omnicharge through ventilation openings or get stuck inside a port.

Storing your Omnicharge

If you are going to store your Omnicharge for an extended period, keep it in a cool location (ideally, 71° F or 22° C) and charge the battery to 100 percent. When storing your Omnicharge for an extended period, maintain the capacity of the battery by charging the battery to 100 percent every six months.

Legal

This product is meant for use only in conjunction with the appropriate device. Please consult your device packaging to determine whether this product is compatible with your particular device. Manufacturer is not responsible for any damages to any device incurred through the use of this product.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 10cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC 15 Interference

This device complies with part 15 of the FCC Rules and RSS-Gen of IC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B (without Qi Wireless) and Class C (with Qi Wireless) digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

CAUTION:

To comply with the limits of the Class B (without Qi Wireless) and Class C (with Qi Wireless) digital device, pursuant to Part 15 of the FCC Rules, this device must be used with certified peripherals and shielded cables. All peripherals must be shielded and grounded. Operation with non-certified peripherals or non-shielded cables may result in interference to radio or reception.

Warranty

Warranty One (1) Year Limited

Visit Omnicharge Support at www.omnicharge.co/register and register your Omnicharge.

Customer Support

All Omnicharges have gone through thorough quality inspection. If you find your Omnicharge or any Omnicharge accessories is experiencing or demonstrating any abnormal behavior, immediately stop all product use and contact us at support@omnicharge.co

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