omnicharge™

Omni 20+
Quick Start Guide
120V AC / 150V HVDC

POWER YOUR NEXT ADVENTURE

For more information visit our **support** page at www.omnicharge.co/support
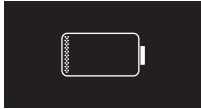
# *BEFORE USING*
Calibrate the battery

To make sure the battery reading is correct, please calibrate the Omnicharge battery when you first receive the product and periodically in the future.

It's easy to do. Follow these steps:

1. Fully discharge Omnicharge until the screen turns off. Press the Power Button and you should see an empty battery icon on the screen.
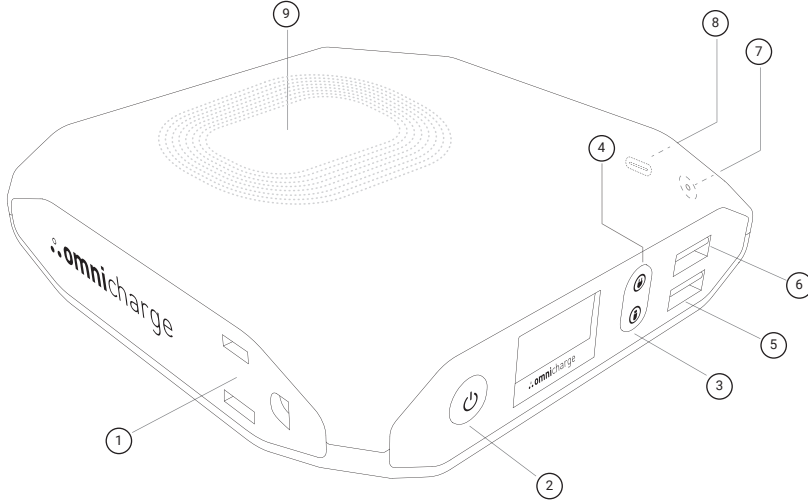

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2. Fully charge your Omnicharge to 100% to finish the calibration.
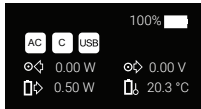
PORTS AND BUTTONS

Note: *For optimal wireless charging, place phone horizontally towards the back of the Omnicharge.*

1. AC Outlet
2. Power and Menu Button
3. USB Button
4. AC Outlet Button

5. Quick Charge USB (QC 3.0 Compatible)
6. 5V/3A USB-A Port
7. DC Input/Output *(5.5 x 2.1mm Barrel Port)*
8. USB-C Input/Output
9. Wireless Charging

BUTTON FUNCTIONS

PRIMARY CONTROLS

(⏻) · Long press to power on
· Long press to power off

(⏼) · On/Off AC Outlet
(⏼) · On/Off USB Ports

MENU CONTROLS

(⏻) · Double press to enter the menu
· Quick press to select

(⏼) · Move Up
(⏼) · Move Down

SCREEN
OLED screen with real time metrics
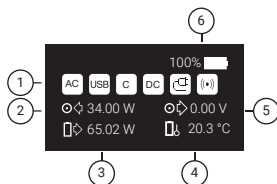
1. Status Icons
2. Power Input (watts)
3. Battery Power Output (watts)
4. Battery Temperature
5. DC Output Voltage
6. Battery Percentage

Note: When you are pass-through charging, the battery output field will show a lower value and can even show 0W output, since the output field is showing how much power is output from the battery and not how much is output from the port.

SCREEN ICONS

AC **AC OUTPUT**
AC outlet is activated.

USB **USB OUTPUT**
USB ports are turned on.

HV DC **HVDC OUTPUT**
HVDC (high voltage DC) is activated.

CHARGING INPUT
Your Omnicharge is being charged.

C **USB-C OUTPUT**
60W USB-C output is activated.

MAX **OPTIMAL CHARGING**
Charging at maximum power.

DC **ADJUSTABLE DC OUTPUT**
Adjustable 5V-25V DC output is activated.

SOLAR CHARGING
Charging from solar power.

LT **LOW TEMPERATURE PROTECTION**
Battery's temperature is too low,
the charging circuit is shut off.

Wireless Charging
Wireless charging is active.

LP **LOW POWER PROTECTION (ONLY DURING PASS-THROUGH)**
Occurs when outgoing power is higher than incoming power and battery is empty. Omnicharge will cut off the outgoing power until a sufficient battery level has been reached.

OP **OVERPOWER PROTECTION**
Device is drawing too much power. Omnicharge will limit or cut off the output power.

OT **OVERHEATING PROTECTION**
Battery temperature is too high. Omnicharge will limit or cut off its input and output power.

OV **OVERVOLTAGE PROTECTION**
Barrel input voltage exceeds the 36V limit. Input charging circuit is shut off.

MENU NAVIGATION

1. DC OUT
Turn on DC output and set the voltage and amperage.

2. WALL SOCKET
Choose whether the AC outlet will output 120V AC or 150V HVDC

3. USB
Choose whether your USB-A ports are on or off when you turn on your Omnicharge. The default setting is on.

4. SCREEN OFF TIMER
Set the screen auto shut-off time here. The default setting is 5 min.

1.

| DC OUT |
| WALL SOCKET |
| USB |
| SCREEN OFF |

| 25.0V ⎓ 4.0A |
| 20.0V ⎓ 5.0A |
| 15.0V ⎓ 2.5A |
| 12.0V ⎓ 2.0A |

Confirm 25.0V ⎓ 4.0A?
● Yes ○ No
⚠ Incorrect setting may harm your device.

2.

| DC OUT |
| WALL SOCKET |
| USB |
| SCREEN OFF |

| 120V AC |
| 150V HVDC |

3.

| DC OUT |
| WALL SOCKET |
| USB |
| SCREEN OFF |

| DEFAULT ON |
| DEFAULT OFF |

4.

| DC OUT |
| WALL SOCKET |
| USB |
| SCREEN OFF |

| NEVER |
| 1 MIN |
| 5 MIN |
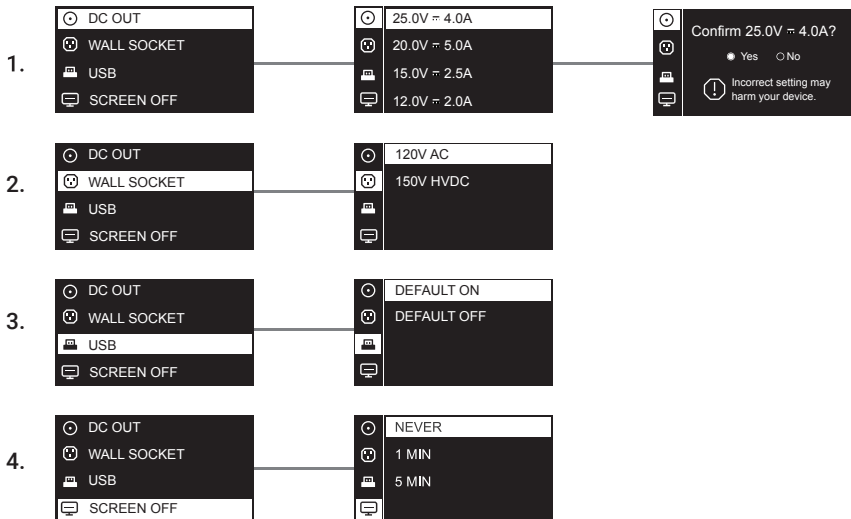
MENU NAVIGATION

5. AUTO SHUT DOWN
Set the power auto shut-off time here. The default setting is 5 min.

6. TEMPERATURE
Choose whether your temperature is displayed in celcius or fahrenheit

7. BUTTON LIGHT
Choose whether the button lights are on or off. The default setting is on.

8. ABOUT
Find the model name, capacity, firmware version, and serial number information here.

5.

AUTO SHUT DOWN	NEVER
TEMPERATURE	1 MIN
BUTTON LIGHT	5 MIN
ABOUT	..

6.

AUTO SHUT DOWN	˚C
TEMPERATURE	˚F
BUTTON LIGHT	
ABOUT	

7.

AUTO SHUT DOWN	DEFAULT ON
TEMPERATURE	DEFAULT OFF
BUTTON LIGHT	
ABOUT	

8.

TEMPERATURE	Model:	Omni 20+
BUTTON LIGHT	Cap:	73Wh
ABOUT	Ver:	1.3.2A/1.0.0A
EXIT	S/N:	2ADF070109

AC OUTLET
Max output power: 100W

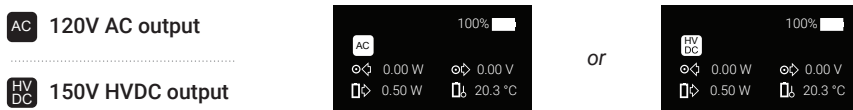To change the AC output mode, double press the Power Button to enter the menu and select Wall Socket.

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1. Choose 120V AC/150V HVDC mode in the menu

⊙ DC OUT
⊙ WALL SOCKET
⌨ USB
🖵 SCREEN OFF

→

⊙ 120V AC
⊙ 150V HVDC
⌨
🖵

Note:

*Only choose 150V HVDC if you are using a switch mode power supply, such as a laptop's AC power adapter. Check our **support** page at www.omnicharge.co for more detailed information.*

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2. When AC/HVDC is active, the following icons should appear on the screen

AC **120V AC output**		
HV DC **150V HVDC output**		

AC	100% ▬
⊙◁ 0.00 W	⊙◇ 0.00 V
⬚◇ 0.50 W	⬚ 20.3 °C

or

HV DC	100% ▬
⊙◁ 0.00 W	⊙◇ 0.00 V
⬚◇ 0.50 W	⬚ 20.3 °C

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3. Power any device.

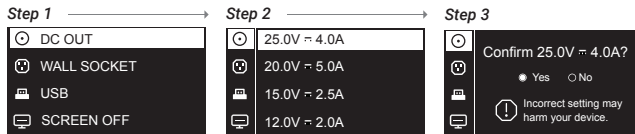| Laptop	TV	Drone	DSLR	Projector	And more

DC OUTPUT
5V - 25V with 0.1V Accuracy, up to 5A (100W max)

The DC output feature can directly charge your laptop without needing your laptop charger.

Warning: Before using DC Output make sure you know the correct voltage for your laptop. **Using the wrong voltage can damage your device.**

Note: *For more information visit our **support** page at www.omnicharge.co/support*

Set voltage and amperage through the menu

Step 1 → *Step 2* → *Step 3*

Step 1	Step 2	Step 3
DC OUT	25.0V ⊓ 4.0A	Confirm 25.0V ⊓ 4.0A?
WALL SOCKET	20.0V ⊓ 5.0A	● Yes ○ No
USB	15.0V ⊓ 2.5A	Incorrect setting may harm your device.
SCREEN OFF	12.0V ⊓ 2.0A	

Omnicharge keeps 4 voltage presets. You can press and hold the power button while selecting a preset to customize the voltage and amperage.

Once active, the DC icon will appear.

DC **Adjustable DC output**

100%

DC
⊙◇ 0.00 W   ⊙◇ 0.00 V
▯◇ 0.50 W   ▯ 20.3 °C
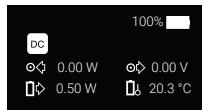
Power your device through the DC port.

DC to Surface Cable   **DC to MagSafe 2 Cable**

You can purchase additional DC cables from our website. For more information about available accessories, please visit www.omnicharge.co/products

USB-C PORT

USB-C port max output: 60W

The USB-C port is plug-and-play. Plug your USB-C device into the USB-C port to start charging

Note: *If your USB-C output does not start charging, try to reconnect the USB-C cable.*

Power any USB-C device.

Action Camera	Nintendo Switch	Smartphone	Tablet	Laptop	And more

RECHARGING FROM THE USB-C PORT

USB-C port max input: 45W
Fully recharge in 3 hours

Plug in a USB-C wall charger and it will start recharging the Omni 20+.

Note: *If the Omnicharge does not detect incoming power, try to plug in your USB-C charger while the Omnicharge is turned off. Once charging has started, you can power on the Omnicharge to utilize pass-through charging.*

RAPID-CHARGING
USB PORTS
USB Port 1: 5V/3A, USB Port 2: QC 3.0

1. Choose whether the USB output is on or off by default.

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RECHARGING FROM THE BARREL PORT
DC Input 4.5V-36V, Up to 3A (2W - 45W)

Charging your Omnicharge`
Use the included USB charging cable to recharge your Omnicharge. A fast charger is
included on certain models and can also be purchased separately.

Note: Make sure the output voltage of your adapter falls within 4.5V - 36V range.
The Omni 20+ only accepts 5.5 x 2.1mm barrel plugs.

AC wall charger	USB sources	Solar (up to 45W)	Car power port (12V)	Laptop adapter
3 hours	5-7 hours	3-6 hours	3 hours	3 hours

THANK YOU

www.omnicharge.co

CUSTOMER SUPPORT

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

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