

# Arc<sup>5</sup>

Quick Start Guide  
English



Welcome! Fully Charge your Arc<sup>5</sup> before first use!

## Using the Arc<sup>5</sup>

- Turn on the output you want to use.
  - The icon will appear on the display to show the output is on.
  - Plug in your devices.
  - Don't forget to turn off the output when you are finished using it.
- \*Repeat the same steps for USB & DC outputs.

## Input

Recharge your Arc<sup>5</sup> with a wall outlet, vehicle cigarette port, or the sun using solar panels.

- 6-7h AC Wall Plug
- 6-7h Vehicle Charger
- 7-11h Solar Panel

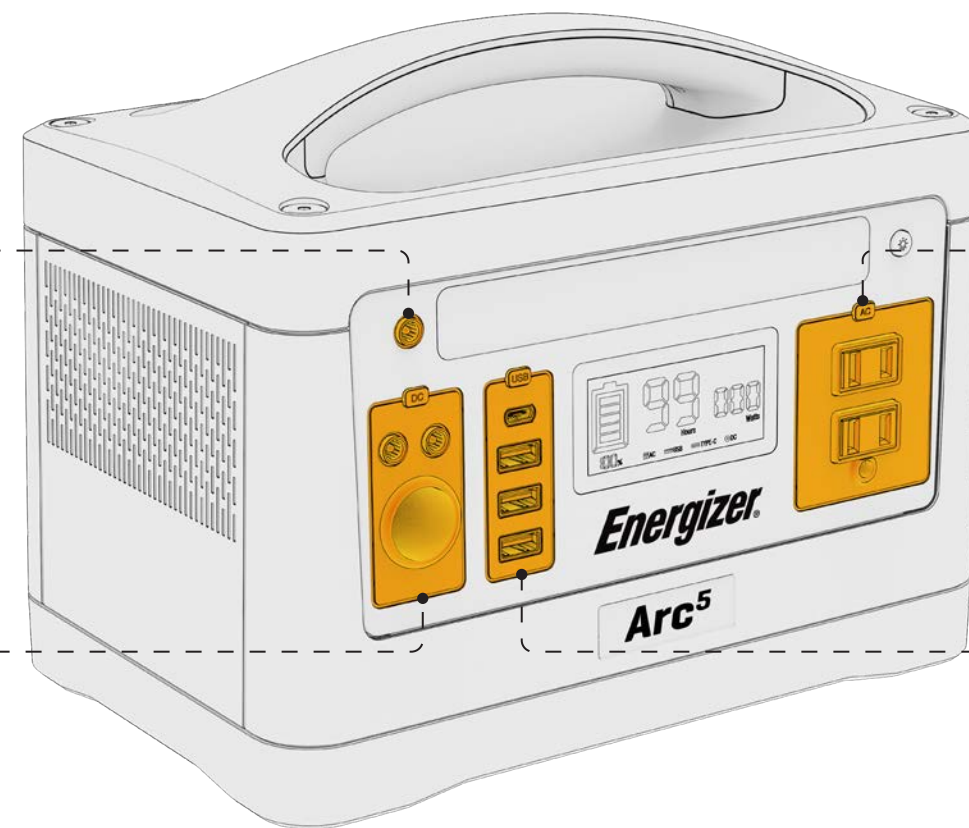
## DC Power

1. DC Power On/Off  
2. 2x 5.5mm 12V DC Ports  
3. 12V Cigarette Port

Example Devices

- 3 Nights CPAP (25W)
- 4.5h Vacuum (120W)
- 8.5h Car Cooler (60W)

# Welcome to the Freedom of Portable Power.



## Power on the Go. Arc<sup>5</sup>

## AC Power

1. AC Power On/Off  
2. 110V receptacle  
3. 110V receptacle

Example Devices

- 95h Light (5W)
- 8x Laptop (62Wh)
- 6h TV (75W)

## USB Power

1. USB On/Off  
2. USB Type-C  
3. USB Type-A  
4. USB QC3.0

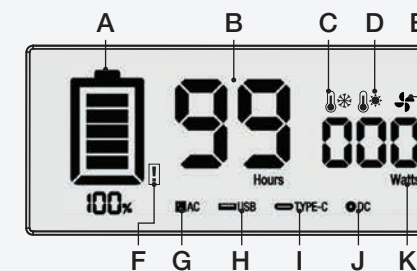
Example Devices

- 45x Smartphone (12Wh)
- 16x Tablet (32Wh)
- 120x GoPro (4.4Wh)

## Important!

- Not permitted on aircraft
- Avoid extreme temperatures
- Avoid dropping
- Do not expose to liquids
- Dispose of batteries according to local regulations

## LCD Display



- A- Battery Charge**  
How much battery power is left.
- B- Time Remaining**  
Run time remaining at the current power draw.
- C- Low Temperature Warning**  
It's too cold! Warm up the battery.
- D- High Temperature Warning**  
It's too hot! Cool down the battery.
- E- Cooling Fan**  
The fan will run when the battery gets hot, this is normal.
- F- Low Battery**  
The battery is getting low, recharge it.
- G- AC Output**  
Indicates AC output is on.
- H- USB Output**  
Indicates USB output is on.
- I- USB Type-C Output**  
Indicates USB Type-C output is on.
- J- DC Output**  
Indicates DC output is on.
- K- Watt Meter**  
Current output in Watts.

## Not Recommended (Over 500W Consumption)

- Hairdryer
- Kettle
- Microwave
- Space Heater
- Circular Saw
- Air Conditioner

## FAQs

### Can the Arc<sup>5</sup> be stored and operated indoors?

Yes, lithium-ion cells do not exhaust any fumes and are completely safe.

### Can I fly with the Arc<sup>5</sup>?

No. Unfortunately FAA regulations allow a maximum of 100Wh batteries on a plane. Arc<sup>5</sup> is 550Wh.

### Can I recharge while powering devices at the same time?

The Arc<sup>5</sup> is equipped with pass-through charging which means you can recharge the Arc<sup>5</sup> while using it to power devices at the same time.

### Can I use both AC and DC ports at the same time?

Yes, Arc<sup>5</sup> supports simultaneous operation. All ports can be used at once, provided the total draw is less than 500W.

### What will happen if I plug in a device over 500W?

The unit will stop operation and display an overload error message. Press the AC button to turn off and press again to reset the system.

### Can I use this with My CPAP Machine?

Absolutely. CPAP operation using DC ports (with Energizer CPAP converter) will allow longer runtime than AC ports. Runtime will differ greatly based on heat, humidity, and pressure settings.

### How long will it keep a charge?

1 Year. It's best to charge every 3 months and store at 40-50%.

### Can the Arc<sup>5</sup> jump start a car?

No, a jump start port is not available on this unit. It is capable of recharging a car battery through a trickle charger.

### Can I charge the Arc<sup>5</sup> with a generator?

Yes, it will charge in 6-7hrs. An inverter generator is recommended.

### Can I combine two solar panels to achieve a faster charging rate?

Yes, as long as the combined output voltage of the panels is between 12V -24V.

### Will Arc<sup>5</sup> automatically shut down with no power draw?

Yes, it will shut down after 10hrs. This duration was designed to ensure fridges operate properly.

### Will the USB-C Port power my Laptop?

No, laptops require USB-C - *Power Delivery (PD)* to reach the required 60W of power. Arc<sup>5</sup> USB-C is the standard variety - 18W max, which is not sufficient.

### How much power is drawn if a port is left on accidentally?

About 1.5W per hour with a max of 15W total.

### Can I buy parts to fix my Arc<sup>5</sup> after Warranty has expired?

Yes, please visit our website for more information.

## Troubleshooting Guide

Problem	Solution
<b>Why won't the screen turn off?</b>	Ensure DC, USB, AC power buttons have all been turned off. The icons at the bottom of the screen will show which ports are active.  AC  USB  TYPE-C  DC
<b>My Arc<sup>5</sup> shut down while powering my device.</b>	If the AC icon  on the digital display is blinking the unit has overloaded. Press the AC button to turn off and turn on again to reset. Max power limit for AC is 500W.
	If the High Temperature icon  on the digital display is blinking: Turn all ports off and remove unit from heat source. Do not use until unit has cooled and the icon disappears. Then turn the output on and try again. Excessive heat will degrade the battery's life span.
	If the Low Temperature icon  on the digital display is blinking: Turn all ports off and remove unit from the cold. Do not use until unit has warmed and the icon disappears. Then turn the output on and try again.
<b>My device is not receiving power.</b>	Ensure the power switch for the output you want to use is on. For example if you want to charge your phone turn USB on, then plug in your phone.
<b>My Arc<sup>5</sup> charge level is fluctuating.</b>	If the battery has been drained fully, Arc <sup>5</sup> can't read the charge as accurately. As it receives a charge the accuracy will increase.
<b>My Arc<sup>5</sup> is not charging.</b>	Ensure that you are using the port labeled "input", noted by the red circle that surrounds it. Ensure that all components are firmly connected.

## Battery Education 101

For more information please visit [www.energizergenerators.com/arc5](http://www.energizergenerators.com/arc5)

### Device Runtime | AC vs. DC Power

In general, it is normal for power losses to occur when energy is transferred from the battery to the ports that power your devices.

The AC port requires an inverter, which transforms power from DC to AC. This process creates heat and consumes about **15%** of the power it transforms. DC ports are more efficient and only consume **5%** of the power that is transformed.

Your device will always last longer when plugged into DC ports if that option is available. For example, a CPAP machine will last almost an extra night when using an Energizer DC CPAP converter compared to the standard AC plug.

### Heat is the Enemy

If the Arc<sup>5</sup>, or any power station, is left in the heat it will impact its health, capacity and longevity. Keep out of hot cars and direct sunlight on warm days. Heat is the #1 reason batteries degrade prematurely.

### Determine The Power Consumption of Your Device

Device with no battery: locate Watts (W) on the product. If Watts are not available: multiply the Voltage (V) x Amps (A) to arrive at Watts. Eg. 120V x 0.6A = 72W

Device with a battery: locate Watt Hours (Wh). Or multiply the Voltage (V) x Amp Hours (Ah) to arrive at Watt Hours (Wh). Eg. 12V x 1.0Ah = 12Wh (Note: 1.0Ah = 1000mAh)

### Calculate Working Time or Recharges for your Device

**AC outlets working capacity**  
550Wh x 0.85 (15% inverter conversion loss) = 470Wh working capacity. For example, assume your fan consumes 72W. To calculate working time: 470Wh ÷ 72w = 6.5 hrs

### DC and USB Outlets working Capacity

550Wh x 0.95 (5% DC conversion loss) = 520Wh working capacity. For example, assume your smartphone has a 12Wh capacity battery. To calculate the number of recharges before capacity is depleted, use the formula: 520Wh ÷ 12Wh = 43 recharges.

### Regulated 12V vs Non-Regulated 12V

Non-regulated 12V ports are linked to the charge percentage of the battery. For example, when a power station is at 100% charge the DC voltage will operate at approximately 12V, which is acceptable for 12V devices. But as the battery charge drops to 50% the DC voltage will drop to approximately 10.8V. 12V devices such as mini-fridges/coolers, CPAP machines, vacuums, radios etc., will simply stop running when the voltage drops below ~11V.

To put it simply, 12V devices will run about half as long when operated on an unregulated 12V port, assuming the device will run at all.

Scientific equipment and medical equipment should always be operated on regulated power. Arc<sup>5</sup> DC ports are 12V regulated, ensuring voltage is constant and devices will always run safely and as long as expected.

## Specifications

General		Input	
<b>Weight</b>	11.1 lbs / 5.0kg	<b>Wall (AC) Charger</b>	19V 4.8A (90W)
<b>Dimensions</b>	10.2" x 6.7" x 8.1"	<b>Wall Charge Time</b>	6-7 hrs (AC)
<b>Operating Temp.</b>	-10°C to 60°C	<b>12V Car Charge Time</b>	6-7 hrs (12V DC)
<b>Recharging Temp.</b>	0°C to 40°C	<b>Solar Connector</b>	MC4
<b>Warranty</b>	2 Years	<b>Solar Voltage</b>	12-24V*
<b>Certifications</b>	ETL, CE, ROHS, FCC	<b>Recommended</b>	60-200W
Battery		Output	
<b>Watt Hours</b>	550Wh	<b>Solar Panels</b>	
<b>Ah</b>	38.2Ah @ 14.4V	<b>Solar MPPT Controller</b>	Yes
<b>mAh</b>	150,000mAh	<b>Solar Charge Time</b>	7-11 hrs**
<b>Cell Type</b>	Lithium-ion	<b>Continuous Power</b>	500W
<b>Cycle Life</b>	>500	<b>Peak Power</b>	1000W
<b>Shelf Life</b>	Charge every 3 months	<b>Inverter Type</b>	Pure Sine Wave
<b>Fuse</b>	3 x 30A	<b>AC Output Voltage</b>	4.5A 110V Pure Sine
<b>Pass-Through Charging</b>	Yes	<b>USB Type-A</b>	2x 5V 2.4A
<b>Battery Management</b>	Over-current	<b>USB Type-A Quick Charge (QC3.0)</b>	5V 2.1A / 9V 2A /12V 1.5A
<b>Protection System</b>	Overload	<b>USB Type-C</b>	5V 2.1A / 9V 2A /12V 1.5A
	Over-voltage	<b>DC Cigarette Port</b>	12.6V 10A (Regulated)
	Short circuit	<b>DC 5.5mm</b>	13V 4A (Regulated)
	Temperature		
	Under-voltage		

\*Up to 200W panels. Do NOT exceed 24V or damage may occur

\*\*Solar charge time will vary based on many factors and conditions such as the weather, time of day, location, solar panel efficiency etc.

## Warranty Claim Procedure

Do not return your product where purchased. If you feel your power station is not meeting your expectations, simply contact our customer support center [support@energizergenerators.com](mailto:support@energizergenerators.com) for technical advice, a warranty claim or general information. Keep a copy of the original receipt, UPC code and serial number with this user guide.

## Register Online

[www.energizergenerators.com/register-your-warranty](http://www.energizergenerators.com/register-your-warranty)

## Safety



DO NOT disassemble, repair, or modify the unit or the battery.

DO NOT place the unit close to fire, heat sources, or leave in direct sunlight.

DO NOT connect the output socket to mains power under any circumstances.

DO NOT expose to moisture or liquids, especially saltwater.

Dispose of the unit properly according to local regulations.

DO NOT dispose in regular household trash.

DO NOT operate the unit above the specified input voltage, be especially careful with solar panels.

DO NOT use this unit if your hands are wet.

DO NOT use if the unit appears damaged.

This product IS NOT permitted on aircraft.

## Warranty

Limited warranty period for recreational and residential use: Two Years Limited

1st Year: Parts and Labor

2nd Year: Parts

This product is warranted to be free of defects in material and workmanship for two years from date of purchase and does not restart at any time under any circumstances. This warranty guarantees that any defective parts will be repaired or replaced at no cost, including diagnosis and replacement parts.

Limitation of remedies and disclaimers: Energizer Generators disclaims any responsibility for loss of time or any other incidental or consequential damage. Any implied warranties are limited to the duration of this written warranty.

THE FOREGOING LIMITED WARRANTY IS EXCLUSIVE OF AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR

Inspect the unit prior to every use.

Keep this product away from children and pets.

Carefully read the instructions for the electric devices you intend to connect.

Keep away from direct sunlight, water, dust, and dirt.

DO NOT leave the unit outside in harsh environments.

High temperatures can damage the battery and decrease the lifecycle and capacity.

DO NOT leave outdoors overnight uncovered. The moisture from the dew may lead to a short circuit.

PURPOSE AND OF ANY OTHER WARRANTY WHETHER EXPRESS OR IMPLIED.

Exclusions not covered by this limited warranty: damage to products caused by accident, negligence, misuse, abuse, modification, improper installation, improper storage, water, liquid or gas of any kind, operation in a marine application, operation with improper loads or conditions, modifications contrary to published specifications, accessories not supplied by Energizer Generators, repairs made during the warranty period without first obtaining a case number from Energizer Generators, or use for anything other than the intended use as outlined by Energizer Generators.

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