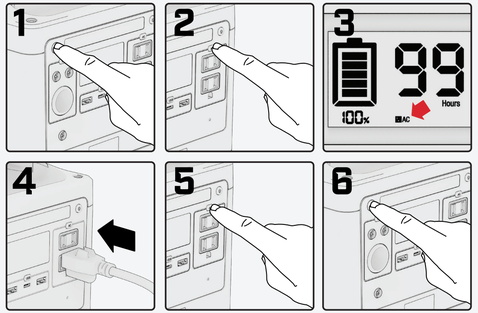
Arc³

Quick Start Guide

TM

Welcome! Fully Charge your Arc³ before first use!

Using the Arc³



1. Press and hold power button for 1 second to turn on the unit.
2. Press the AC button to power on the AC outlets.
3. The icon will appear on the display to show the output is on.
4. Plug in your devices and power up.
5. After use, press the AC button to power off the AC outlets.
6. To turn off all ports and power down press and hold the power button for 1 second.

*Repeat the same steps for USB & DC outputs.

DC Power

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

Example Devices

2 Nights CPAP (25W)

2.5h Vacuum (120W)

4h Car Cooler (60W)

Input

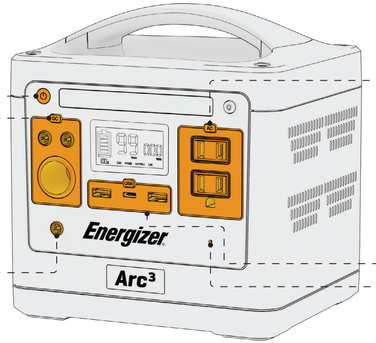
Recharge your Arc³ with a wall outlet, vehicle cigarette port, or the sun using solar panels.

5h AC Wall Plug

5h Vehicle Charger

5-8h Solar Panel

Power Button
Press and hold for 1 second to turn the unit on or off.



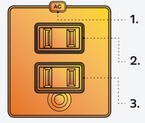
The power to Go. Arc³

Screen Brightness
Double click the power button to dim the screen. Single press to brighten it back up.

Emergency S.O.S
Double press the LED button to engage the emergency strobe feature. Single press again to turn it off.

Restart
Use a paperclip (or similar) to reboot if needed.

AC Power



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

Example Devices

32h Light (8W)

4x Laptop (62Wh)

3.5h TV (75W)

USB Power

1. USB On/Off
2. USB Type-C
3. 2x USB 3.0 Type-A Fast Charge

Example Devices

22x Smartphone (12Wh)

8x Tablet (32Wh)

62x GoPro (4.4Wh)

Important!

Not permitted on aircraft

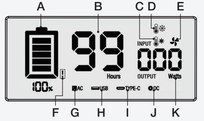
Avoid extreme temperatures

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- High Temperature Warning
It's too hot! Cool down the battery.
D- Low Temperature Warning
It's too cold! Warm up 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 input or output in Watts.

Not Recommended

(Over 350W Consumption)

Hairdryer

Kettle

Microwave

Space Heater

Circular Saw

Air Conditioner

Knowledge Guide

Arc³

FAQs

Can I fly with the Arc³?
No. FAA regulations allow a maximum of 100Wh batteries on a plane. Arc³ is 300Wh.

Do I need to calibrate my battery remaining meter?
Only if you notice a major difference between the predicted time left and how long your Arc is actually running. Calibrate your Arc's battery runtime meter by charging to 100%, discharging to 0% (until the unit turns off), then charging back up to 100%.

Can the Arc³ be stored and operated indoors?
Yes, lithium-iron phosphate cells do not exhaust any fumes and are completely safe.

Can I recharge while powering devices at the same time?
Yes, the Arc³ is equipped with pass-through charging which means you can recharge the Arc³ while using it to power devices at the same time.

Can I use both AC and DC ports at the same time?
Yes, Arc³ supports simultaneous operation. All ports can be used at once, provided the total draw is less than 350W.

What will happen if I plug in a device that draws over 350W?
The unit will stop operation and display an overload error message. Press the AC button to turn off and turn on again to reset the system.

How long will it keep a charge?
1 Year. It's best for your battery's health to charge every 3 months and store at 40-50%. Do not store at 0% charge, lithium-iron batteries lose 3-5% charge per month. Within a few weeks your unit may be below the charge level needed to accept a recharge and permanent damage has been done.

Can I use this with my CPAP machine?
Absolutely. CPAP operation using DC ports (with CPAP converter) will allow longer runtime than AC ports. Runtime will differ greatly based on heat, humidity, and pressure settings.

Can the Arc³ jump-start a car?
No, a jump start port is not available on this unit.

Can I charge the Arc³ with a generator?
Yes, it will charge in 5hrs. 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 Arc³ 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 PD (Power Delivery) Port power my Laptop?
Yes, it can provide up to 60W of charging power.

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 Arc³ after the warranty has expired?
Yes, please visit our website for more information.

Troubleshooting Guide

Problem	Solution
My Arc³ shut down while powering my device.	If the AC icon ⊡AC 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 350W.
	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.
My device is not receiving power.	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.
My Arc³ charge level is fluctuating.	If the battery is very low, the Arc³ can't read the charge as accurately. As it receives a charge the accuracy will increase.
	Your battery meter may need recalibration by charging to 100%, draining to 0% (until the unit turns off), then charging back up to 100%.
My Arc³ is not charging.	Ensure that you are using the port labeled "input", noted by the red circle that surrounds it. Ensure that all components are firmly connected.
My Arc3's screen stopped responding.	Use a paperclip to restart your unit by pressing the factory reset button (restart) on the front control panel. The unit will then reboot. If this does not solve your issue please call our technical support team.

Battery Education 101

For more information please visit www.energizerarc.com

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 a DC CPAP converter compared to the standard AC plug.

Heat is the Enemy

If the Arc³, 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
300Wh x 0.85 (15% inverter conversion loss) = 255Wh working capacity. For example, assume your fan consumes 72W. To calculate working time: 255Wh ÷ 72w = 3.5 hrs

DC and USB Outlets Working Capacity
300Wh x 0.95 (5% DC conversion loss) = 285Wh working capacity. For example, assume your smartphone has a 12.3Wh capacity battery. To calculate the number of recharges before capacity is depleted, use the formula: 285Wh ÷ 12.3Wh = 22 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.

The Arc3 does not have regulated ports but it's 12V ports are optimized to output up to 14 Volts on a full charge and a minimum of 12 Volts when the battery is almost depleted. This ensures devices, such as electric coolers, keep running no matter how much charge is remaining.

Specifications

General	
Weight	9.1 lbs / 4.2kg
Dimensions	7.4" x 6.5" x 7.9"
Operating Temp.	-10°C to 40°C
Recharging Temp.	0°C to 40°C
Warranty	2 Years
Certifications	ETL, CE, ROHS, FCC

Battery	
Watt Hours	300Wh
Ah	24Ah
mAh	85,000 mAh
Cell Type	Lithium-iron Phosphate
Cycle Life	>2000
Shelf Life	Charge every 3 months
Pass-Through Charging	Yes
Battery Management Protection System	Over-current Overload Over-voltage Short circuit Temperature Under-voltage

Input	
Wall (AC) Charger	19V/3.5A 60W
Wall Charge Time	5 hrs (AC)
12V Car Charge Time	5 hrs (DC)
Solar Connector	MC4
Solar Voltage	12-24V*
Recommended Solar Panels	60-200W
Solar MPPT Controller	Yes
Solar Charge Time	5-8 hrs**

Output	
Continuous Power	350W
Inverter Type	Pure Sine Wave
AC Output Voltage	110V/3.1A Pure Sine
USB Type-A Fast Charge	2x 5V/2.1A, 9V/2A, 12V/1.5A
USB Type-C PD	1x 20V/3A - PD 60W
DC Cigarette Port (12V Optimized)	1x 12.6V/10A
DC 5.5mm (5521) (12V Optimized)	2x 13V/4A

*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@energizerarc.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.energizerarc.com/register-your-warranty

Safety

Danger! ⚠

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.

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.

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 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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