



An Extended Guide · No. 1455

Pass-Through Power and UPS Mode

Keeping the power
on without a blink

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✓ The best news first — this one is safe indoors

Here is the best news about a solar generator, and the reason it earns a place in your home: despite the word 'generator,' it has no engine. At its heart is a big rechargeable battery in a case — a power station — and the panels simply refill it from the sun. It burns no fuel, so it gives off no exhaust and no carbon monoxide — the invisible, deadly gas that makes a gas generator a strictly outdoors-only machine. That means the power station part is safe to use right inside your home, in any room, with the windows closed — beside your chair, on the nightstand, next to a medical device. (The panels sit outside in the sun; the station stays indoors where it is dry.) A few simple habits keep it that way: charge it with the gear it came with, give it a little air while it works (don't bury it under a blanket or shut it in a tight cabinet), keep it away from water and from baking heat, and never use one that is cracked, soaked, or swollen. And that indoor safety is exactly what makes pass-through and UPS mode such a comfort — your internet box, your computer, or a medical device can sit right beside you, guarded from every flicker, with no machine to run out in the yard.

Backup so smooth your devices never feel the outage

Two quiet little features turn a solar generator from a battery you reach for in the dark into a steady guardian that's always on watch: pass-through and UPS mode. Together they can keep a computer, your internet, or a medical device running so smoothly it never even blinks when the power goes out. This guide explains both, in plain English.

I'm Bill, and I run Bill's Home Tech here in Portage County, Ohio. In 30-plus years of helping folks with the gear in their homes, I've found these two features sound far more technical than they truly are. We'll go slowly, one plain idea at a time, the way I would at your kitchen table.

You don't need any background for this. If you've ever kept your phone plugged in and used it at the same time, you already understand the heart of pass-through. The rest is gentle detail, and we'll take it together.

★ Nothing to sell, just honest advice

I don't sell solar generators and I earn no commission, so this is just plain teaching. If you'd like help deciding whether these features matter for your home, call or text me at (330) 200-8042 and we'll talk it through — free.

The whole guide, on one page

If you remember only these things, you already understand what pass-through and UPS mode do, and whether they're for you.

- ❑ Pass-through means you can use the station to run your devices while it's charging — power passes in one side and out to your gear at the same time.
- ❑ UPS mode goes a step further: leave the station plugged in with your device plugged into it, and if the grid drops it switches to battery on its own.
- ❑ That switch is very quick — usually fast enough that a router or computer never even notices the wall power went dead.
- ❑ It's a gift for the internet box, a desktop computer, a CPAP, or a medication fridge — no reboot, no lost work, no gap.
- ❑ The honest part: the switch is quick but not promised to be perfectly instant on every unit, so for anything truly critical, check the maker's spec.
- ❑ For life-sustaining medical gear, UPS mode is one helpful layer — never a substitute for a purpose-built medical UPS and a full backup plan.

✓ One line to hold onto

Pass-through means charge and use at once. UPS mode means the battery catches your device the instant the grid drops — usually so smoothly it never notices the wall went dead.

Pass-through: using it while it charges

Pass-through is the simpler of the two ideas, and the name says it plainly — power passes right through the station, in one side and out the other.

Normally you fill the station up, unplug it, and use it until it runs low. Pass-through lets you do both at once. The station stays plugged into the wall (or connected to its solar panels), quietly refilling its battery, while your devices draw the power they need from its outlets at the same time. Power comes in one side and passes through to your gear.

That's handy in all sorts of everyday ways. You can keep the station parked in a convenient spot with a lamp or the internet box always plugged into it, topped up and ready. Or, in a long outage, you can refill the station from its panels while it keeps your essentials running — the recharging guide covers those charging options in full.

✓ The plain picture

Think of pass-through as a passing lane: power flows in from the wall or the sun and out to your devices at the same time, topping up the battery in between. Nothing has to stop while it fills.

UPS mode: backup that never blinks

UPS mode is pass-through with a guardian added. It's the feature that turns a solar generator into a true safety net for a device you can't let switch off, even for a second.

First, what UPS means

UPS stands for uninterruptible power supply — which is just a long way of saying 'power that doesn't get interrupted.' You leave the station plugged in, and you plug your device into the station instead of straight into the wall. The wall keeps the station charged, and the station passes that power along to your device. So far, that's ordinary pass-through.

Then, if the power drops, it catches you

Here's the clever part. The moment the wall power fails, the station starts running your device from its own battery instead — and it does it so quickly that the device never sees the gap. Your computer doesn't reboot, your internet box doesn't drop, your CPAP doesn't stop. The lamps in the room may go dark, but the thing plugged into the station just keeps humming along.

✓ UPS, in plain words

A UPS is simply a battery that stands between the wall and your device and takes over the instant the wall goes dead — so fast the device never notices. In UPS mode, your solar generator does exactly that job.

Why a seamless hand-off matters

For most things, a two-second flicker is no bother — a lamp blinks, a fan pauses, and life goes on. But some devices hate any interruption at all, and that's where UPS mode earns its keep.

- **A desktop computer:** unlike a laptop, a desktop has no battery of its own, so a flicker shuts it off cold — losing whatever you were working on and forcing a slow restart. UPS mode carries it through the blip.
- **Your internet:** a router and modem that lose power have to reboot, and can take minutes to come back. UPS mode keeps you online with no wait — and keeps a medical-alert or cordless-phone base alive too.
- **A medical device:** for a machine someone leans on, never seeing the gap can matter a great deal. UPS mode can bridge a flicker or a brief outage — with the honest caution we'll come to in a moment.

✓ It's the blips, not just the big outages

Short flickers — the kind that make the microwave clock blink — happen far more often than long blackouts. UPS mode quietly smooths those over, day in and day out, without you lifting a finger.

The honest part: the switch isn't always perfect

I promised you straight talk, so here's the one catch with UPS mode — and it matters most for anything you truly depend on.

When the wall power fails, the station needs the tiniest moment to notice and switch over to its battery. On most units that switch is very quick — usually fast enough that a computer, a router, or a phone charger never notices a thing. But 'usually' is not 'always,' and not every unit switches at the same speed.

A very sensitive desktop computer, now and then, might still hiccup if a particular station switches over a touch too slowly. There's no need to guess about it: the maker lists the switch-over speed in the unit's spec, and if a device is truly critical, that's the number to check — or, better yet, reach for a purpose-built UPS made for that job. I'm glad to help you read the spec.

! For anything critical, don't assume — check

The switch is quick, but it isn't promised to be perfectly instant on every unit. For a device you truly can't let blink, check the maker's spec for the switch-over speed, and treat a solar generator as one layer of the plan, not the whole plan.

Setting it up is refreshingly simple

Putting a solar generator to work as a UPS takes no special skill — just a few plugs and a quick test on a calm afternoon.

- ❑ **Keep the station topped up.** Leave it plugged into the wall (or on its panels) so its battery stays full and ready.
- ❑ **Plug your device into the station.** Use one of the station's regular outlets, just as you'd use a wall socket.
- ❑ **Turn on UPS mode if your unit asks you to.** Some units are always in UPS mode when plugged in; some have a setting or a button. The manual tells you which.
- ❑ **Test it once.** With everything running, pull the station's wall plug for a moment and watch — your device should carry right on with no hiccup.

✓ Try it before you count on it

That little test — pulling the wall plug on purpose while your device runs — is the whole ballgame. Do it once on a quiet afternoon and you'll know exactly how your setup behaves before a real outage ever comes.

What UPS mode is wonderful for

UPS mode shines with the small, steady devices that hate interruption — the ones where a blink costs you time, work, or comfort.

- **The internet box:** keep the router and modem alive through flickers, so your Wi-Fi, streaming, and internet calls don't drop out.
- **A desktop computer:** no lost work and no cold reboot when the power stutters — and calm minutes to save and shut down in a longer outage.
- **A CPAP overnight:** bridged through a brief outage so a night's sleep isn't broken — with the maker's switch-over speed confirmed first.
- **A medication fridge:** kept cold and steady through the flickers, so insulin or other medicines don't warm up during a blip.
- **A cordless-phone or medical-alert base:** the little bases that go dead in an outage stay powered, so help is still a button away.

These are the quiet workhorses of an outage — the things that keep you safe, connected, and comfortable. If you'd like help deciding which of them belong on your own must-run list, the outage-essentials guide is a friendly place to start.

✓ The common thread

UPS mode loves small, steady devices you'd rather never switch off. Big, hungry, or once-in-a-while loads aren't what it's for.

What UPS mode is not

UPS mode is a wonderful safety net, but let's be clear about its edges so you're never caught out. Seamless is not the same as endless.

It is not a bottomless well of power. In UPS mode the station is still just a battery, and once the wall power is gone it runs your device from its charge — for as long as that charge lasts, and no longer. A long outage will eventually draw it down, the same as any battery. What UPS mode buys you is a smooth hand-off and a stretch of runtime, not endless power. On a sunny day the panels can help refill it as it works, which is where solar earns its keep.

And it is not whole-house protection. UPS mode guards whatever is plugged into the station — your computer, your internet box, a medical device — not your entire home. It won't run big 240-volt loads like a well pump or central air, no matter how fast it switches. For that heavy work, that stays a gas generator's job.

! Sized by the battery, not by magic

However quick the switch-over, UPS mode can only run what fits the station's output, and only for as long as its charge allows. Ask it to carry more than it can handle, or wait out a very long outage without refilling, and the battery still has the final say.

Two kinds of homes, two sets of needs

Whether UPS mode is an everyday helper or an occasional one depends a good deal on where you live and on what your power does when the weather turns.

If you live in town or the suburbs

In town, in the suburbs, or in an apartment, outages tend to be short, and the more common nuisance is the quick flicker — the blink that resets the clocks and reboots the router. That's exactly what UPS mode is built to smooth over.

- It keeps the internet box and a home-office computer running straight through the flickers that happen most, so nothing reboots and no work is lost.
- For a bedside medical device, it can bridge the brief outages a town home usually sees — with the maker's switch-over speed confirmed first.
- City water keeps flowing, so you're protecting comfort and connection, not a pump — just what UPS mode does best.
- It sits quietly indoors, guarding a device around the clock, and tops back up from the wall the whole time.

If you are out in the country on a well

Out in the country, UPS mode still smooths the flickers beautifully, but the outages run longer — and a battery guarding a device will eventually need refilling, and it still can't take on the heavy loads.

- It bridges flickers and brief drops seamlessly; for a long rural outage you'll lean on the panels to refill the station as it protects your gear.
- It can keep a medical device or a freezer steady through the gap, buying time and comfort while the power's out.
- Be honest about the well pump: it's almost always 240-volt, and UPS mode or not, a portable station can't run it. That stays a gas generator's job.
- Store some drinking water for the outage, since the well pump may be down the whole time the power is.

★ Rural or in town, let's set it up right

Whether you want a computer guarded through the flickers or a medical device bridged through an outage, I'll help you set UPS mode up and test it honestly, with nothing to sell. Call or text (330) 200-8042.

A kindness to the station: give it air

Pass-through and UPS mode are handy, but there's one gentle word of care worth knowing so your station stays healthy and happy at its work.

When a station charges and powers your devices at the same time, it works a little harder and makes a little more heat than it would just sitting there charged. That's normal, and it's exactly what the feature is for — but heat is the one thing a battery likes least. So give the station room to breathe: don't shut it in a tight cabinet, bury it under a blanket, or crowd it against the wall. A unit with open air around it sheds that heat easily and may run its little fan now and then, which is nothing to worry about.

There's one more honest detail. Some units limit how much power can pass through them at once, and charging hard while also running a heavy draw is demanding on any station. If you plan to lean on pass-through for something power-hungry, the maker's spec and manual will tell you what your unit is happy handling.

! Heat is the thing to watch

Pass-through and UPS mode make a station work both ends at once, so it runs warmer. Keep it in open air, follow any limit the manual gives on continuous pass-through, and never tuck a working unit into a closed, stuffy space.

For a household with a medical device

This is one of the kindest uses for UPS mode, and also the one where I want you to be the most careful. Let's take it slowly and honestly.

For someone who depends on a device like a CPAP, having it bridged smoothly through a flicker or a brief outage can mean an unbroken night's sleep instead of a jarring wake-up in the dark. The station sits quietly beside the bed, keeps the machine running, and catches it the instant the wall power drops. On a longer outage, the panels can refill the station by day so it keeps standing guard. That's a real comfort.

But hold onto this. For life-sustaining equipment — the kind a person cannot safely do without — a solar generator's UPS mode is one helpful layer of a plan, never the whole plan, and never a substitute for a purpose-built, medical-grade UPS. Keep whatever backup your doctor or equipment supplier recommends, confirm the switch-over speed with the device's maker before you rely on it, and treat the station as a welcome extra. Our medical-equipment guide goes into all of this, carefully and in plain English.

! One layer of the plan — never the whole plan

For life-sustaining medical equipment, please don't lean on a solar generator's UPS mode alone. Use a purpose-built, medical-grade UPS and the full backup plan your provider set up; let the solar generator be one extra layer of comfort on top. And give the station open air — pass-through makes it work harder. See our medical-equipment guide, and call me any time.

For the home office

If you work or manage your affairs from a computer at home, UPS mode is close to a must-have — it turns a power flicker from a small disaster into a non-event.

- **No lost work:** a desktop computer keeps running through a blip, so the document, email, or tax return you were in the middle of doesn't vanish.
- **No dropped calls:** the router and modem stay up, so a video visit with the family or an internet phone call carries right on.
- **Time to save and shut down:** even in a longer outage, UPS mode gives you calm minutes to save your work and power down properly, rather than a hard crash.
- **Peace for the whole desk:** plug the computer, monitor, router, and modem into the station and the entire little office rides out the flickers together.

✓ Save-and-shutdown is a win too

Even if an outage outlasts the battery, UPS mode's quiet gift is those calm minutes — enough to save everything and shut down gracefully, instead of losing it all in a sudden blackout.

Pairing UPS mode with the panels

UPS mode and the solar panels make a lovely team, especially in a longer outage: one stands guard over your device, the other keeps the battery from running dry.

In a stretched-out outage, a station guarding your gear in UPS mode will slowly spend its charge. The panels let you pour power back in during daylight, so the station can keep protecting your computer or medical device far longer than its battery alone would allow. It's pass-through and solar working hand in hand — the sun refilling the tank while UPS mode stands watch.

Just remember the honest side of solar: the panels only make power in daylight, they make the most in bright, direct sun, and they stop at night. The wall is still your reliable, rain-or-shine charge. The recharging guide walks through all the ways to fill the station back up, and how to lean on each one.

✓ Guard and refill at once

Think of solar as the slow, steady refill and UPS mode as the watchful guard. Together they let a station protect a device through a long outage its battery could never carry on its own.

Clean power, and where the real answers live

Two last things worth knowing before you count on UPS mode: the kind of power it passes through, and the one place that has the exact answers for your unit.

Pure sine wave keeps the power clean

You'll see the term 'pure sine wave' on better stations. In plain terms, it means the power the station puts out is smooth and clean — the same gentle kind you get from the wall. That matters for sensitive electronics and medical devices, which can be fussy about rougher power. For UPS duty on a computer or a medical machine, clean, pure sine wave power is what you want.

The manual is the honest authority

UPS features vary a great deal from one station to the next. Not every unit has a true UPS mode, and among those that do, the switch-over speed, how you turn it on, and any limit on continuous pass-through differ from maker to maker. So before you rely on it, read the UPS or backup section of your manual, and check the maker's spec. If it's unclear, the maker's support line can tell you — and so can I.

✓ When in doubt, the maker's spec wins

For your specific unit, the manual and the maker's spec beat any general guide, mine included, on the exact settings and speeds. Keep the manual with your other home papers, and don't be shy about calling the maker with a plain question.

A simple UPS setup checklist

Put it all together and setting up UPS mode is a short, calm routine. Here it is on one page.

- ❑ Confirm your station actually has a UPS mode — check the manual, not just the box.
- ❑ Find the maker's switch-over speed, and if a medical device is involved, confirm it with the device's maker.
- ❑ Keep the station topped up, then plug your device into its outlet.
- ❑ Turn on UPS mode if your unit needs it switched on.
- ❑ Test it: pull the wall plug for a moment and make sure your device rides through without a hiccup.
- ❑ Give the station open air, and follow any manual limit on continuous pass-through.

✓ Six calm steps, once

Run through this once on a quiet afternoon and UPS mode stops being a mystery. You'll know it works, how smoothly it switches, and exactly what to expect when a real flicker comes.

Common mistakes people make

A few avoidable slip-ups account for most UPS-mode disappointment. Now you'll know them in advance.

- **Assuming every station is a true UPS.** Many aren't, and some switch over too slowly for a fussy device. Check the manual and the maker's spec.
- **Trusting it blindly for medical gear.** Never assume the switch is fast enough — confirm it with the device's maker, and keep your provider's full plan.
- **Boxing it in.** A station on pass-through runs warmer; shut it in a tight cabinet and it can't shed the heat. Give it air.
- **Overloading it.** UPS mode still can't run more than the station's output allows; plug in too much and it protects itself and shuts off.
- **Expecting whole-house protection.** It guards what's plugged into it, not the whole home — and never a 240-volt well pump.

! The one to take to heart

The costly mistake is trusting UPS mode for something critical without ever testing it or checking the maker's spec. Test it once, confirm the speed for a medical device, and it becomes the reliable friend it's meant to be.

A couple of myths, cleared up

A couple of ideas about UPS mode come up so often they're worth naming outright and setting straight.

Q: 'In UPS mode, my device can never lose power.'

Not quite — and it's an important 'not quite.' UPS mode means the station catches your device the instant the wall power drops, so it doesn't blink. But it's still running on the battery after that, so it lasts only as long as the charge does. And the switch, while very quick, isn't promised to be perfectly instant on every unit — which is why you check the maker's spec for anything sensitive.

Q: 'UPS mode makes it a whole-house backup.'

No. UPS mode guards whatever is plugged into the station — a computer, the internet box, a medical device — not your entire home, and never a 240-volt well pump. Think of it as a careful bodyguard for a few important devices, not a shield over the whole house.

✓ When you're unsure, ask

There's no silly question about any of this. If a spec sheet or a salesperson leaves you unsure whether a unit's UPS mode fits your need, that's a fine reason to call me before you buy, not after.

A few questions to ask before you rely on it

Before you count on UPS mode, these plain questions point you to whether it fits your need — and which unit to look for.

- What am I really trying to protect — the internet, a computer, a medical device — and how badly would a flicker hurt it?
- Does the station I'm considering actually have a true UPS mode? (Not all do.)
- What's the maker's switch-over speed, and if a medical device is involved, is that fast enough per the device's maker?
- How long would I need it to carry my device in a real outage, and could I refill it from the panels as it runs?
- Have I left output to spare, and open air around it, so it isn't running right at its limit while it stands guard?

★ We can answer these together

If you're unsure how to answer even one, that's normal, and it's just what I'm here for. Tell me what you want to protect and I'll help you find a unit whose UPS mode truly fits. Call or text (330) 200-8042.

Putting it all together

Pass-through and UPS mode turn a solar generator from a battery you reach for into a quiet guardian that's always on duty. Here's the whole idea in a breath.

Pass-through lets the station charge and power your devices at the same time. UPS mode adds a fast, automatic hand-off, so when the wall power drops, your computer, internet box, or medical device never sees the gap. It's wonderful for the small, steady loads that hate interruption, it works quietly indoors day and night, and on a sunny day the panels can refill it while it stands guard.

Just hold onto the honest parts: it's still a battery, so it lasts as long as its charge and won't back up the whole house or a 240-volt well pump; the switch is quick but not promised to be perfectly instant, so check the maker's spec; give it open air, since it works harder this way; and for life-sustaining medical gear, keep it as one layer of a fuller plan, never a substitute for a medical-grade UPS.

✓ The whole guide in one line

Pass-through charges while it powers; UPS mode catches your device the instant the grid drops. Test it once, give it air, mind the maker's spec, and let it stand guard.

Common Questions

The questions I hear most about pass-through and UPS mode on a solar generator, answered plainly.

Q: What's the difference between pass-through and UPS mode?

Pass-through means the station can charge and power your devices at the same time — power in one side, out the other. UPS mode adds an automatic, quick switch to the battery the moment the wall power drops, so a device plugged into the station never sees the interruption. UPS mode is pass-through with a guardian added.

Q: Will UPS mode keep my desktop computer from shutting off in a flicker?

That's exactly what it's for. A desktop has no battery of its own, so a flicker normally shuts it off cold. In UPS mode the station carries it through the blip, so you don't lose your work or wait through a reboot. Test it once by pulling the wall plug to be sure.

Q: Is it safe and fast enough for a medical device?

It can bridge a device like a CPAP through a flicker or a brief outage — but confirm the maker's switch-over speed first, and treat it as one layer of a plan, never the whole plan. For life-sustaining gear, use a purpose-built medical UPS; our medical-equipment guide covers this honestly.

Q: How long will it keep my device running in an outage?

As long as its battery lasts, no longer — UPS mode changes how smoothly it takes over, not how much energy it holds. A small, steady load like the internet box lasts a good while, and on a sunny day the panels can refill the station as it runs. The recharging guide covers stretching a long outage.

Q: Will running it this way wear it out?

Used for small, steady loads, it's just what the feature is for. Charging and powering at once does make a little extra heat, so give the station open air and follow any limit the manual gives on continuous pass-through — then it'll serve you for years.

★ Still have a question?

That's what I'm here for, and there's never a silly one. Call or text me at (330) 200-8042 and I'll give you a straight, friendly answer.

You don't have to do this alone

You just have to remember that a friendly, patient person is one call away.

I hope this guide made pass-through power and UPS mode feel a little less daunting and a lot more doable. Keep it in a drawer with your other home papers, come back to a page whenever you need it, and don't worry about memorizing anything.

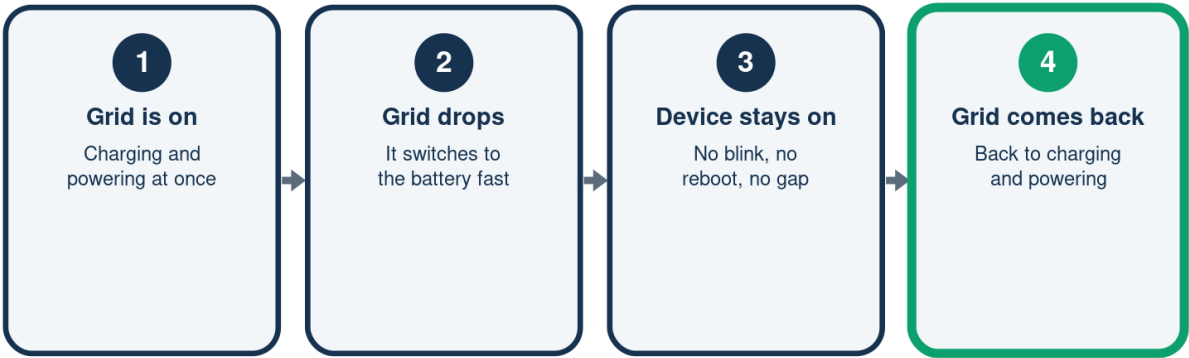
When you'd rather have a hand, that's exactly what I do. I come to your home, work at your pace, and never make you feel rushed or silly for asking. A first visit is a flat \$99, and for the parts that don't need me on-site I can often help right on your screen for \$49. Every visit comes with a 30-day, come-back-free guarantee. I don't do licensed electrical work myself — for anything that needs to be wired into your home, I'll help you line up a trustworthy local pro.

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Call or text me at (330) 200-8042, or visit BillsHomeTech.com. Serving Atwater and all of Portage County. 30+ years of patient, plain-English tech help — and if you're ever not 100% happy with a visit, I'll make it right or refund it. That's a promise. — Bill

How UPS Mode Works

Backup so quick the device never notices



The switch is quick; check your maker's spec for the exact speed.

Pass-Through vs. UPS Mode

Two related features, side by side

	Pass-through	UPS mode
What it does	Charge and use	No-blink backup
You do	Run and refill	Leave plugged in
Best for	Everyday power	PC, router, CPAP
Keep in mind	Give it air	Switch speed

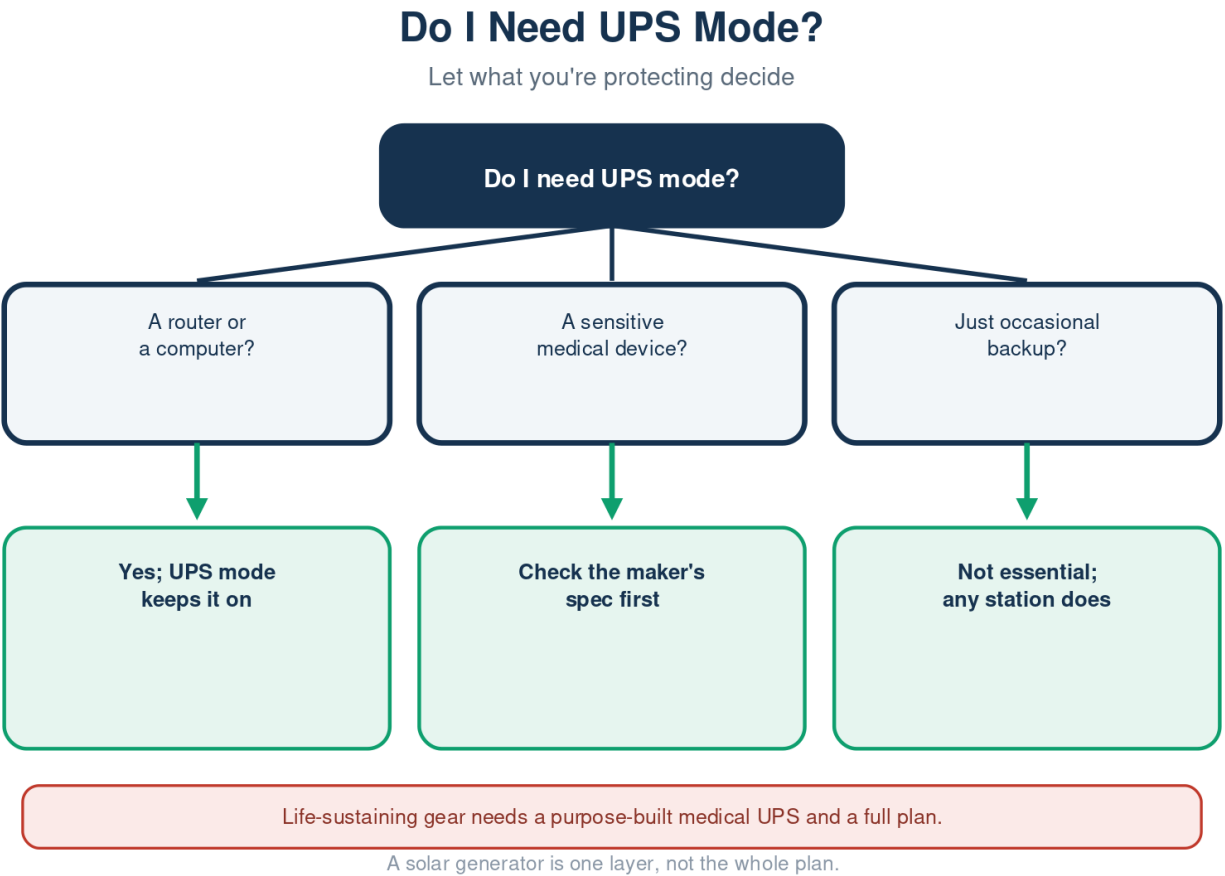
UPS mode is pass-through with a fast guardian added.

Great For / Not a Substitute For

Where UPS mode helps, and where it doesn't

	Great for	Not a substitute for
Router/internet	Keep it online	
A computer	Save your work	
A CPAP overnight	Steady power	
Life-support gear		A medical UPS

It guards a few devices; life-support needs a medical UPS.





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A Note From Bill

A quick note from Bill.

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— *Bill*



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