

POWER STATIONS & SOLAR

Quiet, fume-free backup power for lights, phones and small devices.

🔋 POWER STATIONS

A big rechargeable battery with plug sockets and USB ports. No fumes, so it's safe to use indoors.

- Top it up every few months and before storms. Keep it dry, out of hot cars, and don't leave it charging overnight.
- Check the **watts** on each device's label. The station's output limit must be higher.
- Heaters, kettles and hairdryers drain it fast – save it for lights, phones, radio and medical kit.

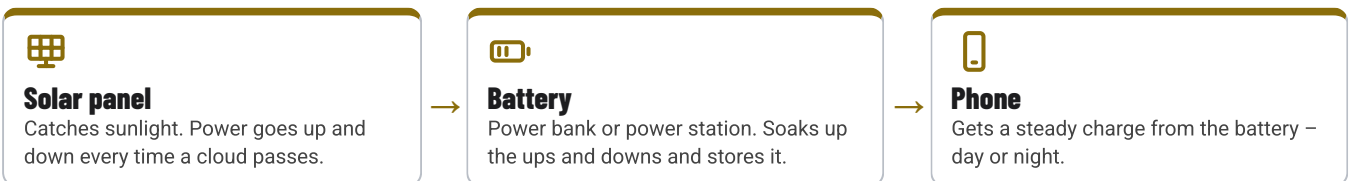
☀ SOLAR PANELS

Folding panels charge a power bank or power station in daylight. UK weather means you'll usually get well under the rated watts, and much less in winter.

- Face it south, tilted towards the sun, with no shade – and move it to follow the sun.
- Check the plug and voltage match your power station before you buy.

🔌 WHICH PANEL DO I NEED?

Panel size	Charges this battery	Example pair
Small – 20 to 30W	Personal power bank, 10,000 to 25,000mAh	Anker PS30 + Anker 20,000mAh power bank
Medium – about 100W	Small power station, around 300Wh	Renogy 100W + Anker C300X
Large – 200W or more	Big power station, 1,000Wh and up	Two 100W panels + Anker C1000



Phones charge badly straight from a panel – every cloud stops the charge. Fill a battery first. Bigger battery = bigger panel.

📅 HOW LONG WILL IT LAST?

Hours ≈ battery size (Wh) × 0.85 ÷ device watts

The 0.85 allows for energy lost converting to mains power.

Device	Uses	288Wh station (e.g. Anker C300X)	1,024Wh station (e.g. Anker C1000)
LED lamp / router	10W	about 24 hrs	about 87 hrs
Phone charges	~15Wh each	about 16	about 58
Laptop	50W	about 5 hrs	about 17 hrs
TV	80W	about 3 hrs	about 11 hrs

Rough guides only. Real runtimes depend on the device, temperature and battery age.

✍ OURS

Model	Size (Wh)	Max output (W)	Charges from	What we'll run on it



Petrol generators are different. They give off carbon monoxide, which can kill in minutes. Outdoors only, well away from doors and windows – never in a house, garage or shed.

