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Can a Portable Power Station Keep Your Router and CCTV Online During a Blackout?

A direct backup check for internet equipment, cameras, network recorders and short outages.

The fast answer For routers and CCTV, the key questions are continuous W, DC or AC voltage, UPS transfer behavior and the total runtime of every device.

Use this guide for home offices, small shops and security systems that need short-duration blackout backup.

Backup equipment checklist

Equipment	What to read	What the product must provide
Router	Adapter voltage, current and connector	Matching DC output or safe AC adapter use
ONT/modem	Adapter rating and restart behavior	Stable output and enough runtime
CCTV cameras	Camera count, PoE voltage and switch load	Continuous output for the PoE switch or recorder
NVR/DVR	Input power and hard-drive load	Pure-sine AC output if powered by AC
Internet service	Whether the ISP cabinet also loses power	A local station cannot restore an external outage
UPS function	Transfer time and pass-through mode	Short transfer behavior compatible with the equipment

Use the exact model, document and supply route for the final quotation.

Runtime example

Use the actual combined load. Adapter ratings are upper bounds, not guaranteed device consumption.

Wh calculation Runtime ~= usable Wh / combined device W. A 1,000 Wh station running a 30 W network load has an ideal runtime of about 33 hours before losses and reserve.

Good product match

- Pure-sine AC for NVRs, monitors and mixed AC loads.
- Regulated DC outputs when router or modem voltage and connector match.
- UPS or pass-through mode when the equipment cannot tolerate a restart.
- Enough ports, ventilation and a clear recharge plan for repeated outages.

Need a product match?	CVC can help match product models, technical parameters and supply routes to the project requirement.

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Prepared as a concise sourcing reference. Confirm exact model, certificate scope, compatibility and warranty responsibility for the final quotation.