PRACTICAL PROCUREMENT REFERENCE | FOR DISTRIBUTORS, INSTALLERS AND BUYERS

Adding Another Battery to an Existing Solar System

A practical expansion checklist for battery age, BMS, inverter capacity and parallel operation.

The fast answer Adding a second battery is a system change, not a simple capacity upgrade. The old and new battery must work together electrically, electronically and under warranty.

Use this guide before quoting a battery expansion for a home solar system.

Expansion compatibility checks

Check	What to compare	Decision point
Battery family	Chemistry, nominal voltage, operating window and capacity	Use the approved expansion family
Age and condition	Cycle count, SOC balance, internal resistance and fault history	Old and new batteries may not share current equally
BMS	Master/slave roles, addresses, firmware and current limits	Parallel communication must be supported
Inverter	Maximum battery current, charge current and battery quantity	The inverter must support the expanded bank
Protection	Fuse, breaker, cable, busbar and disconnect rating	Protection must be recalculated for the new current
Warranty	Original supplier rules and expansion approval	Confirm who covers the combined system

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

Before ordering the second battery

- Photograph the existing battery and inverter nameplates.
- Export BMS status, SOC, cycle count and alarm history.
- Confirm whether the manufacturer permits mixed age or mixed batch operation.
- Update firmware and commissioning settings through an authorized installer.

Do not promise plug-and-play expansion

The correct expansion package needs the existing model, firmware, battery condition, inverter limit, cable protection and warranty route. If these details are unknown, quote a site check and technical confirmation first.

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

Website: www.cvcenergy.com
WhatsApp phone / account: +86 156 2933 2657
WhatsApp chat: wa.me/8615629332657

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