PRACTICAL PROCUREMENT REFERENCE | FOR DISTRIBUTORS, INSTALLERS AND BUYERS

Philippines Island Home Battery and Inverter Selection Guide

How to choose a battery-inverter package for grid-tied, off-grid and island-home backup loads.

The fast answer Start with the operating route: grid-tied backup, off-grid solar, or solar plus generator. The route determines inverter topology, battery size and critical-load wiring.

Use this guide for island homes, remote properties and Philippine projects where backup reliability, generator integration and service access matter.

Operating route and product match

Project route	Battery-inverter direction	Buyer must define
Grid-tied backup	Hybrid inverter with EPS/backup output and low-voltage or high-voltage battery	Critical-load panel, backup hours, phase and transfer behavior
Off-grid solar	Off-grid or hybrid inverter with PV charging, battery control and generator option	Daily load, solar harvest, autonomy hours and generator start
Island home with generator	Hybrid system with generator input, battery charging control and load priority	Generator rating, charging current, fuel schedule and peak loads
Small essential-load system	Portable or compact all-in-one system	Router, lights, fan, refrigerator and desired runtime
Multi-circuit home backup	Fixed all-in-one ESS with correctly sized inverter and battery	Simultaneous power, motor starts, usable kWh and expansion

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

Load data to collect

- List appliances that must stay on during an outage.
- Record running W and starting demand for refrigerators, pumps and compressors.
- Set backup hours and separate essential loads from comfort loads.
- Confirm phase, PV size, generator model, grid frequency and installation route.

Compatibility documents

- Exact inverter and battery model, voltage and continuous current.
- CAN/RS485 profile, pinout, firmware and approved battery list.
- Critical-load panel diagram, generator wiring and local warranty contact.

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.