PRACTICAL PROCUREMENT REFERENCE | FOR DISTRIBUTORS, INSTALLERS AND BUYERS

Battery-Inverter Compatibility Checklist Before Quoting

Seven technical checks for distributors and installers before offering a battery and inverter package.

The fast answer A matching voltage label or a CAN port does not prove compatibility. Use the exact model, current, protocol and topology.

Use this quick check for residential and small commercial projects, especially Southeast Asia channel quotations.

Seven parameters to record

Check	Read from the documents	Why it matters
Exact model	Full inverter model, suffix, country version and revision	Product families may use different voltage, phase and approved battery lists
Voltage class	Battery operating range, not only nominal voltage	The usable window must stay inside the inverter battery window
Current	Continuous charge/discharge and peak current	BMS, fuse, cable and inverter must support the operating point
Communication	CAN/RS485, pinout, baud rate, protocol and profile	A matching port does not mean matching data or control logic
Topology	Single/three phase, EPS, AC/DC coupling and generator input	Wiring and control requirements change with system topology
Firmware	Approved battery list, firmware and installer settings	A match must work during commissioning
Site duty	Backup loads, export limit, temperature and quantity	The system must work under the actual project duty

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

Quick current calculation

Use the minimum operating voltage and compare the result with the battery BMS current, fuse, cable and connector rating.

First sizing check Required battery current ~= inverter output power / minimum battery voltage / efficiency. Example: 5,000 W / 51.2 V / 0.95 = about 103 A.

Documents to request

- Inverter nameplate photo and full model/suffix.
- Battery datasheet, manual and exact battery model.
- CAN/RS485 port information, pinout, protocol and firmware.

- Target country, phase, backup loads, PV/generator arrangement and quantity.

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

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