



ANERN BUYER RESOURCE

Anern Solar Inverter Import Checklist 2026

A practical pre-order checklist for distributors, wholesalers, EPC contractors and project buyers importing solar inverters from China.

Distributors	Wholesalers	EPC Contractors	Project Buyers
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Use this checklist before sample orders, tender submissions, bulk purchase planning or distributor onboarding.

It helps buyers validate the inverter type, PV input, battery compatibility, certification documents, wiring guidance, sample testing and after-sales readiness before importing solar inverters from China.

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How to Use This Checklist

- Complete sections 1-4 before choosing the inverter model and configuration.
- Use sections 5-8 to reduce certification, installation and after-sales risks before placing a bulk order.
- Use the landed reliability cost worksheet to compare suppliers beyond unit price.
- Use the evidence scorecard to review whether supplier documents are complete, model-specific and current.

Checklist Sections

01	Project and Application Checklist	Define the destination market, application scenario and project conditions before model selection.
02	Inverter Type and Power Range Checklist	Confirm inverter type, output phase, rated power, surge capacity and system expansion requirements.
03	PV Input and MPPT Checklist	Match PV string design, MPPT range, voltage and charging limits with real site conditions.
04	Battery Compatibility Checklist	Validate voltage, chemistry, communication interface, BMS settings and third-party compatibility.
05	Certificates and Compliance Checklist	Check model-specific certificates, market compliance and documentation validity before importing.
06	User Manual and Wiring Diagram Checklist	Make sure installers have the correct manuals, wiring diagrams, protection guidance and error-code references.
07	Sample Testing Checklist	Test the selected inverter with real loads, batteries, generators and target-market operating conditions.
08	After-Sales and Service Readiness Checklist	Prepare warranty, spare parts, installer training and issue-tracking workflow before bulk shipment.
09	Landed Reliability Cost Worksheet	Compare unit price with reliability-related costs to understand the real import cost per usable AC output.
10	Supplier Evidence Scorecard	Score supplier evidence before purchase to reduce documentation, compatibility and after-sales risk.

1 Project and Application Checklist

Define the destination market, application scenario and project conditions before model selection.

Check	Item	What to Verify
<input type="checkbox"/>	Target market	Country, region, grid condition, climate and local compliance requirements
<input type="checkbox"/>	Application type	Residential, commercial, farm, telecom, backup, workshop or project-based use
<input type="checkbox"/>	System type	Off-grid, hybrid, grid-connected, generator-assisted or battery storage system
<input type="checkbox"/>	Load profile	Lighting, appliances, pumps, compressors, tools, refrigeration or mixed loads
<input type="checkbox"/>	Expansion plan	Future battery, PV array, parallel or three-phase expansion requirements
<input type="checkbox"/>	Installer capability	Local experience with wiring, BMS communication and commissioning

2 Inverter Type and Power Range Checklist

Confirm inverter type, output phase, rated power, surge capacity and system expansion requirements.

Check	Item	What to Verify
<input type="checkbox"/>	Off-grid or hybrid	Choose based on grid access, battery use and project energy management needs
<input type="checkbox"/>	Power range	Common distributor demand often concentrates around 3 kW to 16 kW
<input type="checkbox"/>	Phase output	Single-phase, split-phase or three-phase requirement
<input type="checkbox"/>	Rated output	Match continuous load requirements
<input type="checkbox"/>	Surge capacity	Validate startup performance for motor loads; selected specifications may reach about 2× rated output for 5 seconds
<input type="checkbox"/>	Parallel capability	Verify whether parallel operation is required and supported
<input type="checkbox"/>	Generator input	Confirm charging or backup input behavior where required

3 PV Input and MPPT Checklist

Match PV string design, MPPT range, voltage and charging limits with real site conditions.

Check	Item	What to Verify
<input type="checkbox"/>	MPPT operating range	Check against actual PV string design and local temperature conditions
<input type="checkbox"/>	Maximum PV voltage	Confirm PV open-circuit voltage does not exceed inverter limits
<input type="checkbox"/>	PV input current	Verify current limits for the selected inverter model
<input type="checkbox"/>	PV string configuration	Confirm panel quantity, series/parallel design and voltage window
<input type="checkbox"/>	Charging current	Check model-specific charging capacity
<input type="checkbox"/>	Derating behavior	Review performance under weak-grid, high-temperature or abnormal input conditions

4 Battery Compatibility Checklist

Validate voltage, chemistry, communication interface, BMS settings and third-party compatibility.

Check	Item	What to Verify
<input type="checkbox"/>	Battery voltage	Confirm the battery voltage range matches inverter requirements
<input type="checkbox"/>	Battery type	Lithium, lead-acid or other battery type used in the project
<input type="checkbox"/>	Communication interface	Verify whether RS485 or RS232 is required
<input type="checkbox"/>	Communication cable	Test actual communication cable and wiring before shipment
<input type="checkbox"/>	BMS settings	Confirm function settings and communication parameters
<input type="checkbox"/>	Protocol compatibility	Verify compatibility by model and battery brand
<input type="checkbox"/>	Third-party battery	Do not assume compatibility without model-specific confirmation
<input type="checkbox"/>	Sample validation	Test inverter and battery together before bulk purchase

5 Certificates and Compliance Checklist

Check model-specific certificates, market compliance and documentation validity before importing.

Check	Item	What to Verify
<input type="checkbox"/>	Model-specific certificates	Verify certificates match the exact model, voltage version and destination market
<input type="checkbox"/>	Test reports	Request current test reports where applicable
<input type="checkbox"/>	IEC references	Review IEC 62109-1/2, IEC 62116 and IEC 61727 where relevant
<input type="checkbox"/>	CE / EMC / LVD	Confirm applicable documents for the selected model and market
<input type="checkbox"/>	Local approval	Check utility, tender, customs or national approval requirements
<input type="checkbox"/>	Labeling and packaging	Confirm marking, labels, manuals and import documentation requirements
<input type="checkbox"/>	Certificate validity	Check dates, model numbers, issuing body and certification scope

6 User Manual and Wiring Diagram Checklist

Make sure installers have the correct manuals, wiring diagrams, protection guidance and error-code references.

Check	Item	What to Verify
<input type="checkbox"/>	Correct user manual	Confirm the manual matches the exact inverter model
<input type="checkbox"/>	PV wiring	Review PV input wiring and safety instructions
<input type="checkbox"/>	Battery wiring	Review battery wiring, protection and communication wiring
<input type="checkbox"/>	AC input/output wiring	Check installation requirements and protection devices
<input type="checkbox"/>	Parallel wiring	Verify parallel operation diagram where applicable
<input type="checkbox"/>	Three-phase wiring	Verify synchronization or three-phase guidance where applicable
<input type="checkbox"/>	BMS settings	Review RS485/RS232, communication cable and parameter setup
<input type="checkbox"/>	Troubleshooting	Check error codes, alarms and service procedures

7 Sample Testing Checklist

Test the selected inverter with real loads, batteries, generators and target-market operating conditions.

Check	Item	What to Validate
<input type="checkbox"/>	MPPT performance	PV input voltage and charging behavior
<input type="checkbox"/>	Surge capacity	Motor-load startup performance where relevant
<input type="checkbox"/>	Battery communication	Inverter and battery BMS communication
<input type="checkbox"/>	Generator integration	Generator charging or backup input behavior
<input type="checkbox"/>	Parallel operation	Synchronization if the project needs parallel systems
<input type="checkbox"/>	Operating temperature	Review operation under target-market conditions; selected specs include -10°C to +50°C
<input type="checkbox"/>	Storage condition	Review storage requirements; selected specs include -15°C to +60°C
<input type="checkbox"/>	Noise and cooling	Check fan operation, ventilation and installation environment
<input type="checkbox"/>	Real load testing	Test pumps, compressors, tools, refrigeration or other common loads
<input type="checkbox"/>	Documentation usability	Confirm installers can follow the manual and wiring diagram

8 After-Sales and Service Readiness Checklist

Prepare warranty, spare parts, installer training and issue-tracking workflow before bulk shipment.

Check	Item	What to Verify
<input type="checkbox"/>	Warranty policy	Confirm warranty scope, exclusions, process and replacement terms
<input type="checkbox"/>	Spare parts	Plan spare parts inventory for distributor service support
<input type="checkbox"/>	Main-board risk	Review overload, electrical stress and protection requirements
<input type="checkbox"/>	Noise complaints	Check installation location, ventilation, cooling and maintenance guidance
<input type="checkbox"/>	Technical support	Confirm response process, support contact and troubleshooting workflow
<input type="checkbox"/>	Installer training	Prepare local training for wiring, commissioning and common errors
<input type="checkbox"/>	Return process	Clarify replacement, repair and documentation requirements
<input type="checkbox"/>	Service records	Track common issues by model, application and installer team

9 Landed Reliability Cost Worksheet

Compare unit price with reliability-related costs to understand the real import cost per usable AC output.

Landed Reliability Cost =
(Unit Price + Freight + Import Duty + Certification Review + Sample Testing + Warranty Reserve + Spare Parts Inventory
+ Estimated After-Sales Cost) / Usable AC Output

Cost Item	Amount	Notes
Unit Price		
Freight		
Import Duty / Tax		
Certification Review Cost		
Sample Testing Cost		
Warranty Reserve		
Spare Parts Inventory		
Estimated After-Sales Cost		
Usable AC Output		
Final Landed Reliability Cost		

10 Supplier Evidence Scorecard

Score supplier evidence before purchase to reduce documentation, compatibility and after-sales risk.

Evidence Item	Available?	Quality Score 1-5	Notes
Product catalog	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Model-specific datasheet	<input type="checkbox"/> Yes <input type="checkbox"/> No		
User manual	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Wiring diagram	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Model-specific certificates	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Test reports	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Battery compatibility guidance	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample testing support	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Warranty policy	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Spare parts plan	<input type="checkbox"/> Yes <input type="checkbox"/> No		
After-sales workflow	<input type="checkbox"/> Yes <input type="checkbox"/> No		

Next Steps After Completing the Checklist

Use the completed checklist to compare supplier evidence, confirm technical fit and prepare a safer import decision before bulk purchase.

01	Confirm the project scenario Match inverter type with grid access, load profile, battery use and local installer capability.
02	Validate model-specific documents Review datasheets, manuals, wiring diagrams, certificates and test reports for the exact model.
03	Run sample testing before bulk orders Test PV input, BMS communication, surge loads, generator input and real target-market loads.
04	Prepare after-sales readiness Plan warranty, spare parts, installer training and service records before distributor rollout.

Recommended Download Center Resources

Solar Inverter Catalog: <https://www.anern.com/catalog/solar-inverter/>

Solar Inverter User Manual: <https://www.anern.com/solar-inverter-user-manual/>

Safety & Quality: <https://www.anern.com/safety-quality/>

Contact Anern

Need help selecting solar inverters for your market?

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Website: <https://www.anern.com/>

Related website resources: [Solar Inverter Catalog](#) | [User Manual](#) | [Safety & Quality](#)

This checklist is designed for pre-order evaluation and distributor project planning. Final technical selection should be confirmed against the exact model datasheet, user manual, certificates and local compliance requirements.