

Residential ESS Supplier Evaluation Checklist

No.	Evaluation Area	What to Confirm	Recommended Evidence	Score	Notes
1	Product Line Clarity	Confirm a defined residential ESS family, logical capacity steps, clear installation formats, and stated solar/grid compatibility.	Product catalogue; model list; capacity options; installation manual; system topology diagram.		
2	Application Fit	Confirm real household use cases: off-peak charging, peak-hour discharge, solar self-consumption, backup behavior, and installation limits.	Application guide; household scenarios; backup-mode description; environment/IP/temperature specs; installer manual.		
3	Safety and Battery Chemistry	Confirm stable chemistry, integrated BMS protection, fire-safety design, remote monitoring, and documented protection validation.	Battery chemistry declaration; BMS/protection function list; fire-safety notes; test/validation reports; monitoring description.		
4	Certification Readiness	Confirm certificates are available for the exact model, capacity, inverter configuration, and target market.	CE, UKCA, G99, RoHS, UN38.3, IEC 62619, cybersecurity documents; test reports; certificate scope.		
5	Manufacturing Reliability	Confirm manufacturing scale, in-house assembly/integration, defined production processes, and repeat-order capability.	Factory profile; capacity figures; production-line photos/videos; process flow; export/customer records; partner visit notes.		
6	Quality Control	Confirm auditable pre-shipment inspection and testing, from incoming materials to final inspection.	QC flow chart; cell grading/matching records; PACK/BMS test records; aging and charge/discharge reports; final inspection report.		
7	Engineering Support	Confirm the supplier can answer system-level questions about BMS, inverter, PV/grid/load interaction, and communication setup.	Technical documentation; BMS/inverter compatibility guide; wiring/topology diagrams; engineering contacts; project discussion records.		
8	Partner Support	Confirm reliable commercial support beyond pricing: documents, configuration guidance, project response, after-sales, and training.	Distributor kit; product FAQ; sales materials; SLA/contact process; training materials; inquiry/project response records.		

Related Links

Home ESS: <https://www.geepoweress.com/home-energy-storage-solution>

TERRA A: <https://www.geepoweress.com/shop/terra-a-series-5-30-kwh-residential-ess-safe-lifepo4-smart-3490>

About GeePower: <https://www.geepoweress.com/about-us>

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