

YAO LASER / PACK LINE PLANNING

BESS PACK line RFQ preparation guide

Minimum project information before discussing a module or PACK assembly line.

Audience	Procurement and engineering teams preparing a first RFQ for ESS module or PACK assembly.
Recommended route	PACK line planning route
Use before	First supplier call, RFQ comparison, or internal project handoff.

1 How to use this file

Turn an early line inquiry into a scope suppliers can evaluate without guessing the product format, automation level, test gates, or delivery boundary.

Field to prepare	Notes before sending
Cell model and dimensions	Fill this with project-specific information or mark it as unavailable.
Module and PACK structure	Fill this with project-specific information or mark it as unavailable.
Target PPM	Fill this with project-specific information or mark it as unavailable.
Automation level	Fill this with project-specific information or mark it as unavailable.
Test gate list	Fill this with project-specific information or mark it as unavailable.
Destination country	Fill this with project-specific information or mark it as unavailable.

1 Product and output inputs

- Prepare cell model, dimensions, module structure, PACK structure, process route, and expected output per shift.
- State whether the project is budgetary, pilot, production expansion, or supplier comparison.
- Define target takt time, operator count assumptions, and acceptable manual steps.

2 Station and test-gate scope

- List mandatory stations: loading, cell sorting, stacking, compression, welding, assembly, EOL, labeling, and packing.
- Clarify OCV, insulation, voltage, leak testing, MES linkage, traceability export, and report format.
- Separate must-have gates from optional future expansion so suppliers can quote staged scope accurately.

3 Commercial and delivery boundary

- Confirm destination country, plant utilities, floor layout limits, FAT acceptance method, spare parts, training, and installation support.
- Ask whether the offer includes tooling, software, test fixtures, documentation, and overseas service.
- Compare suppliers only after the same station list and acceptance evidence are requested from each party.

Checklist: RFQ input worksheet

Input area	Buyer should prepare	Why it matters
Cell format	Model, size, terminal style, supplier status	Drives fixture, conveyor, and test design
Module design	Cell count, compression, busbar path, enclosure	Defines assembly sequence and welding access
Output target	PPM, shift model, expected uptime	Changes station count and buffer design
Automation level	Manual, semi-auto, or full-auto preference	Affects cost, footprint, and staffing
Testing gates	OCV, insulation, EOL, leak, labeling	Creates quality and traceability scope
MES needs	Data fields, format, integration owner	Prevents late software gaps
Factory layout	Available floor plan, utilities, logistics path	Controls line shape and installation risk
Acceptance	FAT standard, sample quantity, report format	Makes supplier comparison fair

Supplier reply review

Supplier claim	Evidence received	Verified by	Decision / open issue

Keep claims, attachments, and unresolved points in the same row so later decisions are traceable.

Internal routing notes

Field	Notes
Prepared by	
Project or account	
Target region	
Decision owner	
Recommended next route	
Files attached	
Open questions	

Final handoff note

Attach drawings, sample photos, target region, timeline, and decision owner before sending the inquiry onward.
If a line item is unknown, mark it openly instead of letting the supplier assume the scope.