

YAO LASER / TESTING AND QUALITY

OCV testing checkpoints for cell and PACK production

Technical note for test timing, data traceability, sorting logic, station placement, and acceptance reporting.

Audience	Quality and automation teams mapping OCV data into production decisions.
Recommended route	Testing equipment route
Use before	First supplier call, RFQ comparison, or internal project handoff.

1 How to use this file

Clarify whether OCV testing is only a station function or part of the quality decision system for sorting, traceability, and shipment evidence.

Field to prepare	Notes before sending
Voltage range	Fill this with project-specific information or mark it as unavailable.
Test timing	Fill this with project-specific information or mark it as unavailable.
Data export fields	Fill this with project-specific information or mark it as unavailable.
MES requirement	Fill this with project-specific information or mark it as unavailable.
Sorting rule	Fill this with project-specific information or mark it as unavailable.
Calibration record	Fill this with project-specific information or mark it as unavailable.

1 Where OCV fits

- Define whether OCV is used for incoming cells, module grading, PACK confirmation, aging review, or final shipment release.
- Confirm if the OCV station needs isolation from charge/discharge, EOL, or labeling workflows.
- Decide whether data is used for immediate NG handling or only for historical traceability.

2 Data and calibration

- Record timestamp, product ID, station ID, operator, measured value, limit, result, and NG reason.
- Confirm export format, MES field mapping, calibration interval, and calibration evidence.
- Ask for example reports before FAT so missing fields can be corrected before shipment.

3 Acceptance and reporting

- Define repeatability requirement, sample size, data-retention expectation, and station validation method.
- Review how NG products are separated physically and digitally.
- Make the OCV report part of FAT evidence rather than a late software discussion.

Checklist: OCV acceptance data checklist

Data field	Required?	Acceptance note
Product ID	Yes	Cell, module, or PACK identifier must be unique
Measured value	Yes	Include unit and decimal precision
Limit range	Yes	Store the rule used for pass/fail decision
Station ID	Yes	Needed for troubleshooting repeatability
Timestamp	Yes	Supports traceability and batch review
NG reason	Yes	Should be specific enough for corrective action
Calibration record	Yes	Attach cycle and reference standard
MES export	If required	Confirm field mapping before FAT

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.