

FACTORY AUDITS

To verify reliable production process in the manufacturing site, the buyer will perform factory inspections before finalize a manufacturer as a new supplier, and such factory audits will be performed again between orders.

1 PROCESS CONTROL

In this section, the inspector will go through all the production lines to see the production process controlling.

- 1.1 Materials preparing
- 1.2 Cell tabbing
- 1.3 Cell stringing
- 1.4 Lay-up
- 1.5 Lamination
- 1.6 Framing
- 1.7 Electrical connection
- 1.8 Clean and visual inspection
- 1.9 Name plates, QC pass label, and other label

2 TESTS OF FINISHED PRODUCTS

Within quality control the manufacturer is obliged to use adequate methods to avoid any defective modules shipping out of the factory.

- 2.1 Output Power Test
- 2.2 High Voltage Test
- 2.3 Insulation Resistance Test

2.4 Other Tests

- -Wet Leakage Test,
- -Mechanical Load Test
- -Module defects checking
- -Others if applicable



3. ENVIRONMENT CONTROL

- 3.1 Production areas
- 3.2 Warehouse of incoming materials
- 3.3 Warehouse of finished products

4. STANDARD MODULE CALIBRATION

The buyer will use his own standard modules to calibrate the manufacturer's standard module to see the difference in the output powers.

5. QUALITY MANAGEMENT SYSTEM

5.1 Documents checking

In this section, the documentation of the manufacturer's quality management systems will be checked. TUV certification is a must when evaluating the manufacturers. If TUV certification is ongoing, the manufacturer should provide progress confirmation letter.

- -Certificates
- -Procedure instruction manuals
- -Series Number
- -Quality management system, manual, and responsible person;
- -Module specification
- Specification of the module;
- Material list;
- Specification of Junction box and connector;
- TUV certificates of junction box, cable, and connector;
- Specification of diode
- Back Sheet partial discharge report

5.2 Materials traceability system

5.3 Continuous improvement