

At a Glance

Skylite Solar and Our Partners

- Estimated annual revenue of : USD 17.5 \$ Billion
- **Global Employees :** 45,000+ people, with 8,000 Engineers in R&D infrastructure
- Global Manufacturing Operations
 5 manufacturing facilities in 5 countries



Major Milestones

- BIPV Module Technology transfer was granted from ITRI
- Granted TÜV Certificate for SPV Series & BIPV Family products and launched the first solar module series with up to 230W power output.
- Granted ISO 9001 Certificate
- Manufacturing started. 1st 25MW-line production at full capacity
- Accomplished one of the world's largest BIPV Project with 1MW 8,844 solar panels for World Game Stadium Granted UL Certificate
- 2nd 25MW-line production started, annual capacity increased to 50 MW
- Granted JET Certificate and UK-MCS Certificate
- Solar Module Capacity expanded to 75 MW.
- Launch new product Smart Module in Q3
- Passed the Long-Term Sequential Test , as 3rd PV manufacturer globally.
- Solar module capacity expansion plan to 300 MW begin the mass production in Q2, 2013.



Our PV Modules

Materials and Structure

• Solar Cell

Monocrystalline and Polycrystalline silicon-based cells, with size of 6 inch, 2 busbars or 3 busbars and the wafer thickness of 180 to 200 μm.

Solar Module

- SPV Module (Standard Photovoltaic) with mono and polycrystalline with silicon-based cells
- **BIPV Module Series** : G2G G2B Bifacial Module
- Black Module Series
- **Smart Module** with Tigo Junction-box solutions



STANDARD PV MODULE

- Up to 6x10 @ 260Wp Certificated module
- Up to 6x12 @ 320Wp Certificated modules
- High efficient 6["] poly or monocrystalline Cells
- Certified materials form International suppliers
- State–of–the–art production equipment
- Higher strength with wind and snow loads guarantee up to 5400 pa.
- Module Size : 1655mm X 989mm X40mm

BIPV MODULES

Innovative Technology (Best Design -High Quality)

- G2G : GLASS to GLASS Solar Module
- Up to 6x10 @ 220W TUV/UL Certified modules
- Custom Made according requirement of architects and clients
- High efficient 6["] poly or monocrystalline Cells
- Variation of cell and string space in a range of 2-40 mm.
- Higher strength with wind and snow loads guarantee up to 10,000 pa.
- Glass thickness from 3.2–8 mm.
- Multiple Certificated sizes



BIPV MODULES

Innovative Technology - Best Design - High Quality



- **GLASS-TRANSPARENT**
 - **TEDLAR Solar Module**
 - Custom Made according ۲ requirement of architects and clients
 - Up to 6x10 @ 220W TUV/UL **Certified modules**
 - High efficient 6" poly or monocrystalline Cells
 - Edge Junction Box
 - **4** Color Options

BLACK MODULE



- 6"poly-crystalline Cells
- Up to 6x10 @ 225W
- Up to 6x12 @ 280W
- High efficient 6" poly or monocrystalline Cells
- Certified materials form International suppliers
- State–of–the–art production equipment
- Higher strength with wind and snow loads guarantee up to 5400 pa.
- Module Size : 1655mm X 989mm
 X39mm

3-FOLD HIGH VALUED QUALITY



100% Electro Luminescence (EL) Testing Delivers Defect Free PV Modules

Industry Practice







Electro Luminescence (EL) is a powerful, low intensity imaging technique to detect the potential defects such as micro-cracks and other crystallographic defects of cells, which are otherwise, invisible to the naked eye.

We **implement 100% Electro Luminescence** screening before lamination and just before packing provides longevity in use and greater power output.



Fill Factor is a measure of quality of solar modules.

The use of high conductivity materials and unique design of our Solar modules outperform competitors by 3% in energy harvesting in real world installations even at low irradiance levels.

Accelerated Environmental Testing

Salt Mist, and Ammonia Resistance Assured

- **The Salt Mist corrosion test** is carried out in accordance to 61701. The modules are exposed to high concentrations of salt mist, both continually and intermittently to simulate extreme possible exposures in use.
- **The Ammonia corrosion test** follows 62716 Ed. 1.0 and is carried out by TUV-Rheinland .
- **Our Modules** have received accreditation with respect to these tests. The modules can be confidently used, in even more extreme environments than the industry standard.

TUV Long-Term Sequential Testing

TEST ITEM	STANDARD	RELIABILITY TEST STANDARD
TUV Long-Term Sequential Test	DAMP HEAT : 1000 HOUR THERMAL CYCLING 200 cycle HUMIDITY FREEZE : 10 cycle	 DAMP HEAT : 2000 HOUR THERMAL CYCLING : 400 CYCLES HUMIDITY FREEZE : 40 CYCLES
PV Evolution Labs and Black & Veatch Reliability Test		 DAMP HEAT : 2000 HOUR (400 hour, repeat 5 times) DH UNDER BIAS (PID) : DH 1000H ± 1000V THERMAL CYCLING : 600 CYCLES (100 cycles, repeats 6 times) HUMIDITY FREEZE : 30 CYCLES (10 cycles, repeats 3 times) MECHANICAL DYNAMIC LOAD : 1000 CYCLES LIGHT INDUCED DEGRADATION (LID) : 90 KWH





For Polycrystalline Products: 3% in the first year, thereafter 0.7% per year, ending with 80.2% in the 25th year after the Warranty Start Date

300KW DEMO POWER PLANT

300KW POWER STATION



ACHO MODULE FOR ROOF TILES

BIPV World Games Main Stadium 1MW

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BIPV SOLAR CITY PROJECT

1.1

BIPV SOLAR TOP PROJECT 125KW Cultural Park

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