

PV Power Tech
'A new standard in High Performance modules'



Energizing a sustainable future



PV POWER TECH

Our Company

PV Power Tech was formed by a team of entrepreneurs who are concerned about the present state of the environment and wanted to do their part to ensure a sustainable future. The core management team is formed of individuals from diverse backgrounds with rich experience in large-scale manufacturing, research and development and customer service.

PV Power Tech has a state-of-the-art automated manufacturing facility at the SEEPZ Special Economic Zone located in the port city of Mumbai, the financial capital of India. The advantages of being in an SEZ and Mumbai are direct connections by both air and sea to all major ports and faster processing of transactions for prompt deliveries and services.

Our Mission

To promote the application of photovoltaic technology as a preferred choice in renewable energies by giving cost effective solutions without compromising on Quality, Performance and Safety.

Our Philosophy

Enhance the long-term value of our company through:

- Profitable growth, that is essential for investment and innovation.
- Recognize market trends and opportunities and develop innovative products and solutions.
- Increase customer confidence by facilitating skilled application of our products, transferring knowledge and synergies and providing support through the life cycle of our products.
- Build a solid network of strategic partners and suppliers sharing our high standards, leading to our mutual success.
- Respect the environment and demonstrate our responsibility in our every activity.
- Develop an encouraging work environment conducive to the growth of it's employees, thus ensuring the growth of the company from the bottom up.



Technology

At PV Power Tech, our focus is to recognize market trends and opportunities and to develop innovative products that lead to better products and higher returns for our customers.

In addition to the cells, we utilize premium raw materials that are well suited to our modules. This combination results in not only a higher power output but also a definitive protection against the elements and a longer life of the product.

Process and Equipment:

At PV Power Tech, we have invested in state-of-the-art equipment that offers premium quality of production with consistency and economies of scale.

The automated stringers ensure consistent stringing of all the cells and combined with the automatic layup, result in the precise handling of the strings. This in turn leads to better space utilization and better aesthetics of the module. The automated lamination cycle guarantees that there are no air bubbles in the module and premium adhesion of the protectants thus ensuring the longer life of the module. Even though our modules are warranted for 2 years for manufacturing defects, they can stand the test of time on account of the well thought out and executed process cycle.



PV Power Tech's Quality and Product commitment :

At PV Power Tech, we pride ourselves in using raw materials of the best quality from industry leaders. The modules are constructed using state of the art automated equipments in our TUV certified manufacturing facility. Our modules have been tested by TUV Intercert according to the standards of IEC 61215 for design and performance and IEC 61730 (Safety Class II). Our modules are backed by a standard 2 year manufacturing warranty and power warranty of 90% of the minimum output power for 10 years and 80% of the minimum output power for 25 years.

Why Crystalline?

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Proven Technology:

Crystalline vs. Thin Film – Crystalline photovoltaic technology has evolved over decades and is now a field tested and proven technology which delivers both in terms of performance and results. The current market share of crystalline photovoltaic technology is over 93% versus Thin Film photovoltaic technology that is only at 7%. Thin film technology has evolved only during the past few years and is still a long way from proving itself.

High Efficiency:

11% - 16% for Crystalline vs. 5% - 8% for Thin Film – Thin Film offer lower efficiencies compared to crystalline technology that is almost twice as efficient. Better efficiency means more power and better returns on investments.

Degradation:

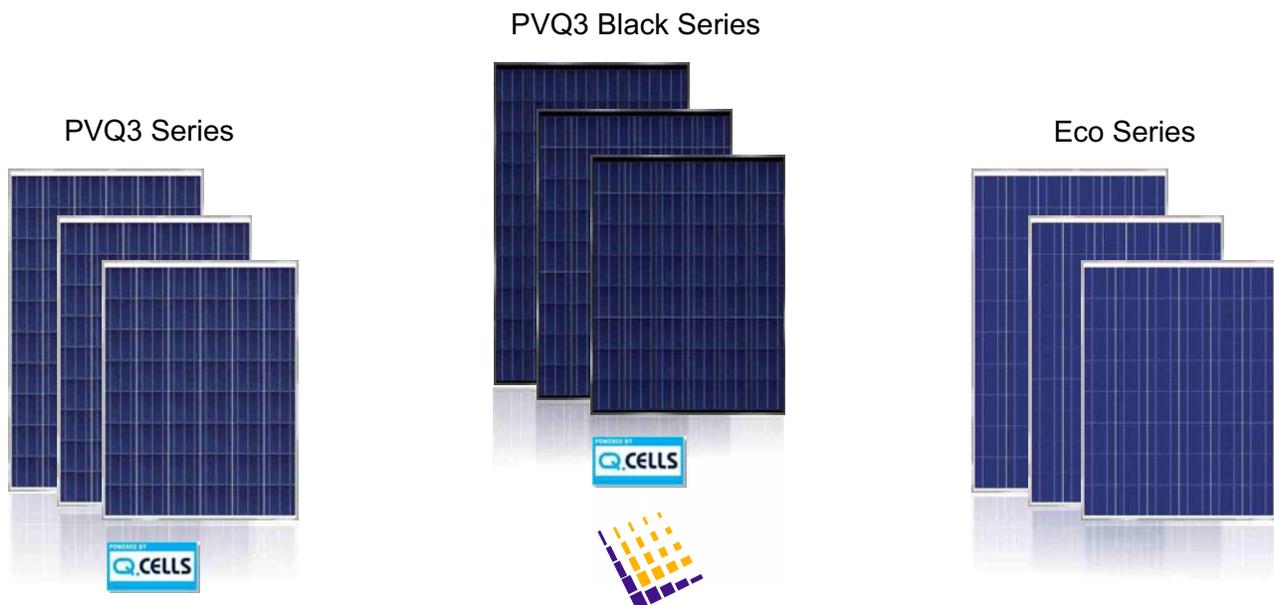
Some of the thin film technologies have show degradation of upto 35% in only a few years of exposure. On the other hand crystalline technology has proven itself with some panels performing for decades without any major degradation.

Ease of Installation:

Thin film is difficult to install compared to standard crystalline as it requires double the real estate and double the equipment. More so, it translates into higher costs as even though the upfront cost of only the panels may be cheaper for thin film versus crystalline, the installed cost is more or less the same and in some cases may be higher because of double the real estate covered and the extra material involved in the installation.

Higher Returns on Investment:

Higher efficiencies, proven technology, competitive costs; all this translates into a better bottom-line where crystalline pays off much faster than thin film.



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