

Solar Panels

Intact Controls provide the perfect solution for electricity generation from sunlight in an efficient and environment friendly manner by means of Solar PV Modules. We offer panels ranging from 3 Wp to 300 Wp.

Products:

- Mono-crystalline Type Solar Panels
- Poly-crystalline Type Solar Panels
- Thin Film Type Solar Panels
- Flexible Type Solar Panels

Mono -crystalline type Solar Panels :

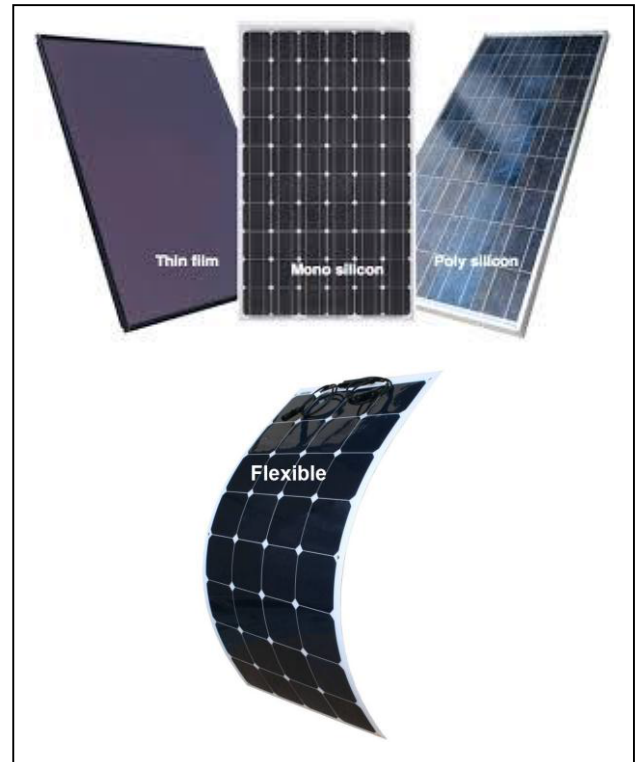
Features:

- Highest efficiency Mono-crystalline silicon solar cells.
- The module efficiency can range from 16-18% (quite high for the industry standards).
- highest level of expected life
- Uniform colour appearance.
- 6V, 12V, and 24V Modules available in wide range of wattages.
- Highly resistant to rain, water, abrasion and hail impact.
- Anodized aluminium frame with pre-drilled mounting holes.
- High impact resistant, toughened glass.
- High quality, dust and water proof junction box.
- Customised sizes / design & specifications also undertaken.

Poly -crystalline type Solar Panels :

Features:

- High performance PV modules made of Poly-crystalline 156.5mm² Silicon Solar Cells with module efficiencies up to 15.2%.
- Beautiful blue and black crystalline formation on the cells.
- 3 busbar technology enhancing the power output.
- Anti-reflex coating to increase light absorption.
- Production controlled positive power tolerance from 0 to 5%.
- Only modules will be delivered that have the specified power or more for high energy yields.
- Delivery of modules in 5 Watt intervals.
- Improved Temperature Coefficient to reduce power losses at high temperature.
- High Power Performance even at lower irradiations.



Thin Film type Solar Panels:

Features:

- Thin-film aka amorphous types of modules are fairly new in the industry
- they can potentially offer better pricing and flexibility
- Proven performance advantage over conventional crystalline silicon solar modules.
- Generating more energy than competing modules with the same power rating.
- lower price per watt
- These modules are preferred in off grid small capacity systems of 5W to 20Wp.

Flexible Thin Film type Solar Panels:

Features:

- Another variant of thin-film type
 - Flexible solar panels are usually used in solar systems for replenishing batteries.
 - Due to its inherent property of flexibility, these panels are used in boats, RVs, and other automobiles as they assume the shape of the base
 - They usually come in ratings between 3W to 18W
- ❖ **Integrates with roof surface**
 - No mounting hardware
 - No roof penetrations
 - No additional wind load
 - ❖ **Flexible module**
 - Fits many roof types
 - Durable, non-breakable
 - ❖ **Light weight**
 - 3.5 kg/m² (0.7 lb/ft²) with adhesive
 - No structural reinforcement required More energy per roof
 - ❖ **High efficiency CIGS**
 - 10.5% to 12.6% aperture efficiency
 - 50% more efficient than flexible a-Si
 - ❖ **High performance**
 - Performs in all light conditions
 - Shade tolerant Covers entire roof area
 - Lays flat. No tilt required
 - No module spacing required
 - Conforms to roof shape Lower Installed System Costs
 - ❖ **Large format module**
 - 250-300 Watts
 - 5.7m x 0.5m dimensions
 - 30 to 40% BOS & Installation cost savings