



**T**TRANQUIL

SUSTAINABLE ENERGY



FOR ALL





The idea is intended to enhance the quality of life.

Our modest start in 2015 led to a lot of time, effort, and money spent on addressing our customers' problems related to energy solutions, power electronics, & renewable energy. Today we can't imagine life without electricity. We always strive to offer a solution to our clients which can bring brightness, happiness, and smiles to their life.

The company is the first to develop the product & market, raise customer awareness, and establish global brands, as well as make sustainable energy solutions and renewable energy businesses.



"With our innovative & sustainable solutions, we aim to improve people's lives every day. Sustainable Energy for All".

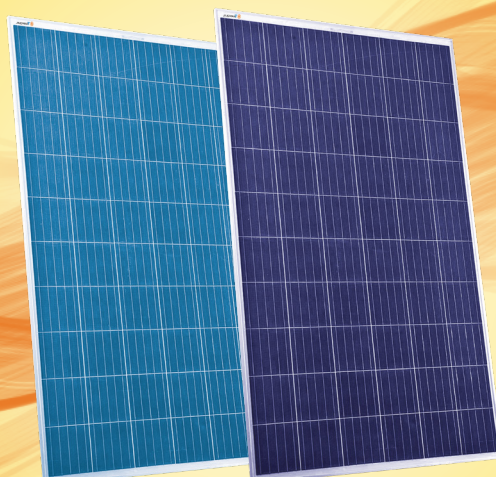
By providing our clients with value-added solutions that power their lives and society, we are passionate about being the preferred manufacturer, integrator of Power Electronics and Solar power systems worldwide.



**Quality** – Quality control is an important aspect of our work so that the longevity and reliability of our products and systems can be maximized. A team of industry experts designs, engineers, and manufactures our products and systems to deliver the best possible performance.

**Competence** – We are competent in more than one way. Our seasoned professionals, use of advanced technology, and experience in the industry enable us to deliver top-of-the-line solutions for our clients.

**Customization** – Customization is our specialty. We don't shy away from complex projects, working diligently to provide the perfect, engineered-to-order solution for our customers.


**S O L A R**  
 POLYCRYSTALLINE

**UPTO 400W**

Tranquil solar offers highly reliable & efficient solar PV modules based on crystalline silicon technology from German & Taiwan ranging from 10Wp to 330Wp in power output for a wide range of On-grid & Off-grid solar power plants, solar water pumps, solar street lighting & other solar systems. The modules are manufactured using automated production line. Tranquil modules are sealed, weatherproof, and highly durable with the ability to withstand high levels of ultra violet, radiations and moisture. Tranquil solar panels offer the best performance in cloudy weather, and don't even get damaged in winds of 12km/hr. Tranquil solar panels help you cut down electricity bills and also friendly to the environment. We urge you invest in this very best of investments both for yourself and planet.

### Technical Specifications

| Wattage Wp                            | 40W    | 50W    | 60W    | 75W    | 100W   | 150W   | 160W   | 190W** | 260W     | 265W     | 335W      | 400W**    |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------|----------|-----------|-----------|
| Voltage at max. Power, Vmax           | 17     | 18     | 18     | 18     | 18     | 18.2   | 18.2   | 20.4   | 30.92    | 30.92    | 38.12     | 39.92     |
| Open circuit Voltage, Voc             | 21     | 21     | 21     | 22     | 22     | 22.2   | 22.2   | 24.3   | 37.95    | 37.95    | 45.15     | 49.2      |
| current at max. Power, Imax           | 2.36   | 2.78   | 3.33   | 4.17   | 5.56   | 8.3    | 8.3    | 9.3    | 8.58     | 8.58     | 8.39      | 9.53      |
| short circuit current, Isc            | 2.54   | 3.2    | 3.83   | 4.67   | 6.06   | 8.5    | 8.5    | 9.86   | 9.18     | 9.18     | 8.98      | 9.9       |
| FF                                    | 0.75   | 0.74   | 0.75   | 0.73   | 0.75   | 0.8    | 0.8    | 0.8    | 0.76     | 0.76     | 0.75      | 0.75      |
| <b>Module Mechanical Details</b>      |        |        |        |        |        |        |        |        |          |          |           |           |
| Module Length (mm) ±2mm               | 470    | 545    | 645    | 775    | 1010   | 1490   | 1490   | 1490   | 1645     | 1645     | 1963      | 1963      |
| Module width (mm) ±2mm                | 665    | 665    | 665    | 665    | 665    | 665    | 665    | 665    | 985      | 985      | 985       | 985       |
| Module efficiency (%)                 | 13.99  | 13.8   | 13.99  | 14.55  | 14.89  | 15.14  | 15.14  | 16.35  | 16.35    | 16.35    | 16.55     | 19.58     |
| Mounting hole Pitch X axis in mm ±2mm | 637    | 637    | 637    | 637    | 637    | 630    | 630    | 630    | 945      | 945      | 945       | 945       |
| Mounting hole pitch Y axis in mm ±2mm | 210    | 300    | 300    | 400    | 500    | 750    | 750    | 750    | 860/1360 | 860/1360 | 1175/1400 | 1175/1400 |
| Module weight (Aprox in kg)           | 3      | 4      | 5      | 6.5    | 7.75   | 10.6   | 10.6   | 10.6   | 17.5     | 17.5     | 22        | 22.5      |
| Packing Type                          | 5 in 1 | 5 in 1 | 5 in 1 | 5 in 1 | 5 in 1 | 4 in 1 | 4 in 1 | 4 in 1 | 1 in 1   | 1 in 1   | 1 in 1    | 1 in 1    |

\*STC(1000W/AM1.5/cell temperature 25 C)



# TRANQUIL



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