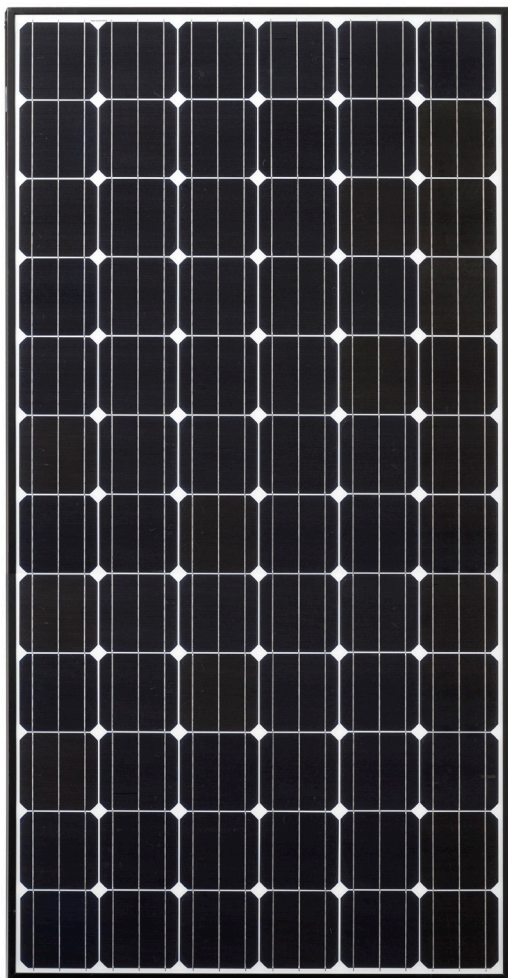


### HIGH-POWER, HIGH-ENERGY PV MODULES

First Solar's TetraSun line of high-performance, mono-crystalline photovoltaic (PV) modules for maximum power-density applications.



- **GENERATE MORE POWER, MORE EFFICIENTLY**

TetraSun PV modules feature an innovative cell architecture that supports a significant improvement in step-function performance. As a result, TetraSun modules harness more power per cell and more energy per Watt. That translates to a 20 percent increase in power per panel compared to conventional mono-crystalline offerings.
- **ENGINEERED FOR OPTIMIZED EFFICIENCY AND LONG-TERM PERFORMANCE**

First Solar TetraSun PV modules are designed to eliminate detrimental effects like light-induced degradation (LID) and potential induced degradation (PID) that degrade the performance of conventional crystalline modules. With one of the lowest temperature coefficients of any crystalline PV technology, TetraSun modules produce up to 10 percent more energy than standard crystalline modules with the same power rating. That equates to over 25 percent more energy using the same site area, dramatically increasing revenue for the system.
- **MAXIMIZE REVENUE OF PREVIOUSLY UNUSED SPACE**

To make this technological achievement possible, we developed an entirely new manufacturing process that combined our proprietary design and premium materials into a high performance technology that was easy to install at lower cost - even in small footprint applications. This makes TetraSun modules ideally suited for locations like rooftops and carports where customers can produce new energy revenue in areas previously hampered by space limitations. These manufacturing advancements reduce product costs, while promoting a superior return on investment for installers and system owners.
- **DEPENDABLE INNOVATION, QUALITY AND RELIABILITY**

First Solar invests more in research and development than any PV manufacturer in the world. You'll see the impact of this investment in the quality of solutions. Our customers are confident knowing we stand behind our products and technologies with a guarantee that is unmatched in the industry.

# FIRST SOLAR TETRASUN PV MODULE

## ELECTRICAL SPECIFICATIONS AND RATINGS AT STC<sup>1,2</sup>

MODEL NAME		TS-355	TS-360	TS-365	TS-370	TS-375
Rated Power (-0%/+5%)	P <sub>MPP</sub> (W)	355	360	365	370	375
Module Efficiency	%	18.1	18.3	18.6	18.8	19.1
Voltage at P <sub>MAX</sub>	V <sub>MPP</sub> (V)	40.0	40.3	40.5	40.8	41.1
Current at P <sub>MAX</sub>	I <sub>MPP</sub> (A)	8.88	8.94	9.01	9.06	9.12
Open Circuit Voltage	V <sub>OC</sub> (V)	49.4	49.7	49.9	50.1	50.3
Short Circuit Current	I <sub>SC</sub> (A)	9.39	9.43	9.47	9.52	9.56
Maximum System Voltage	V <sub>SYS</sub> (V)	1000 DC (IEC) & 600V (UL)				
Limited Reverse Current	I <sub>R</sub> (A)	15				
Series Fuse Rating		15A				

## TEMPERATURE CHARACTERISTICS

Normal Operating Cell Temperature	NOCT	46°C				
Temperature Coefficient of P <sub>MAX</sub>	T <sub>K</sub> (P <sub>MAX</sub> )	-0.34%/K				
Temperature Coefficient of V <sub>OC</sub>	T <sub>K</sub> (V <sub>OC</sub> )	-0.26%/°C				
Temperature Coefficient of I <sub>SC</sub>	T <sub>K</sub> (I <sub>SC</sub> )	+0.03%/°C				
Operating Temperature		-40°C Minimum 85°C Maximum				

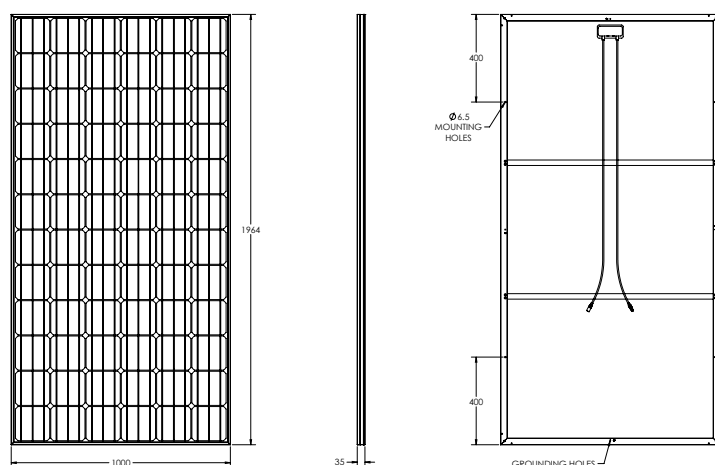
<sup>1</sup> All ratings ±10%, unless specified otherwise. Specifications are subject to change.

<sup>2</sup> Standard Test Conditions (STC) 1000W/m<sup>2</sup>, AM 1.5, 25°C

## PHYSICAL CHARACTERISTICS

Front Glass	Anti-Reflective Coated Tempered Glass
Junction Box	IP-68 Rated with 3 Bypass Diodes
Output Cables	1200mm cables / Yukita Connectors
Frame	Anodized Aluminum
Approximate Weight	22kg
Dimension (L x W x H)	1964 x 1000 x 35 mm
Module Area	1.96m <sup>2</sup>

## MECHANICAL DRAWING



### Disclaimer

The information included in this preliminary Module Datasheet is subject to change without notice and is provided for informational purposes only. No contractual rights are established or should be inferred because of user's reliance on the information contained in this preliminary Module Datasheet.

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