



# TS-M10/144G

## Monocrystalline Module

### 530W-550W



**550W**  
Maximum Power Output

**21.5%**  
Maximum Module Efficiency







**0~+3%**  
Power Output Guarantee

### P-Type



9BB/10BB(182mm)

- **FIRE CLASS A**  
Maximum fire protection through double glazing according to the highest safety requirements
- **REINSURANCE COVERAGE**  
Taoistic is reinsured for 30 years of performance guarantee

 <p>High quality silicon wafers guarantee high power module output and excellent cost-effectiveness, making it an ideal choice for large power plants</p>	 <p>Selected packaging materials and strict process plans to ensure component PID resistance</p>	 <p>Lower oxygen and carbon content leads to lower LID</p>
 <p>Adapt to harsh outdoor environments through weather resistance tests such as sand and dust, salt spray, and ammonia gas</p>	 <p>The design of series and parallel connection reduces the series resistance <math>R_s</math> of components, reduces internal electrical performance losses, and improves the power generation capacity of the system end</p>	 <p>Our company has concluded a reinsurance agreement with Ariel Re - Lloyd's syndicate 1910. Please see <a href="http://verification.arielre-cleanenergy.com">http://verification.arielre-cleanenergy.com</a></p>

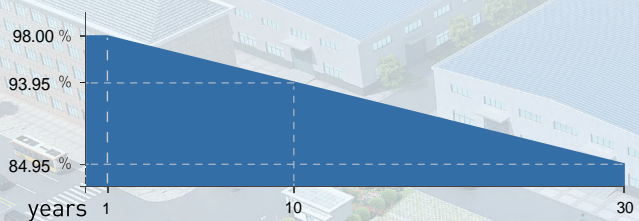
### Deliver Reliable Performance Over Time

- manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO9001:2015, ISO14001: 2015 and ISO45001: 2008
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing test: IEC 61701, IEC 62716)
- Long term reliability tests
- 2x100% EL inspection ensuring defect-free modules
- Fire class1 certificate for ITALY

### WARRANTY

- 12 years product warranty
- 30 years performance warranty

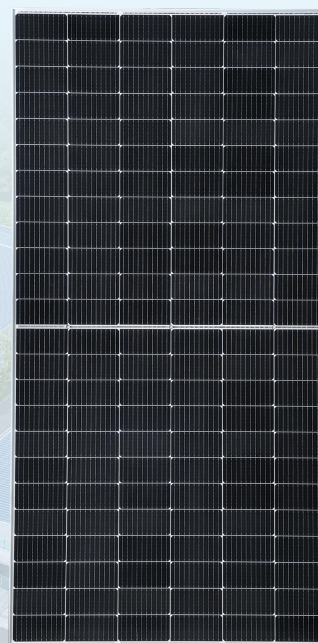
### Linear Performance Warranty



12 Years Product Warranty 30 Years Linear Power Warranty

\* Please refer to standard warranty for details

### Product Certification



# TS-M10/144G

## Monocrystalline Module

### 530W-550W

#### Electrical Specification [ STC\* ]

Maximum Power	P <sub>max</sub> [W]	530	535	540	545	550
Maximum Power Voltage	V <sub>mp</sub> [V]	40.56	40.63	40.70	40.80	40.90
Maximum Power Current	I <sub>mp</sub> [A]	13.07	13.17	13.27	13.36	13.45
Open Circuit Voltage	V <sub>oc</sub> [V]	49.26	49.34	49.42	49.52	49.62
Short Circuit Current	I <sub>sc</sub> [A]	13.71	13.79	13.85	13.94	14.03
Module Efficiency	[ % ]	20.70	20.90	21.10	21.30	21.50
Power Output Tolerance	[ W ]			0+3%		

\* Irradiance 1000W/m<sup>2</sup>, Module Temperature 25°C, Air Mass 1.5

#### Electrical Specification [ NOCT\* ]

Maximum Power	P <sub>max</sub> [W]	394	398	402	406	410
Maximum Power Voltage	V <sub>mp</sub> [V]	37.92	38.05	38.19	38.32	38.46
Maximum Power Current	I <sub>mp</sub> [A]	10.40	10.46	10.52	10.58	10.64
Open Circuit Voltage	V <sub>oc</sub> [V]	46.50	46.63	46.75	46.88	47.00
Short Circuit Current	I <sub>sc</sub> [A]	11.06	11.12	11.19	11.25	11.32

\* Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

#### Mechanical Data

Number of Cells	144 pieces [6 × 24]
Dimensions of Module L*W*H [ mm ]	2278 × 1134 × 30/35mm
Weight [ kg ]	Approx 32.0/32.3 kg
Front Side Glass	2.0 , Anti-reflection coating glass
Back Side Glass	2.0 , Hightransparency solar glass
Frame	Anodized aluminium
J-Box	Protection level IP68
Cable	4.0mm <sup>2</sup> ,300mm
Number of diodes	3
Wind/Snow Load	2400 Pa/5400 pa*
Connector	MC4 compatible or MC compatible

\* For more details please check the installation manual

#### Temperature Ratings

Nominal Operating Cell Temperature [ NOCT ]	44 ± 2
Temperature Coefficient of I <sub>sc</sub>	+0.048%/
Temperature Coefficient of V <sub>oc</sub>	-0.270%/
Temperature Coefficient of P <sub>MAX</sub>	-0.350%/

#### Temperature Ratings

Operational Temperature	- 40--+85
Maximum System Voltage	1500V DC-[H]
Max Series Fuse Rating	25A

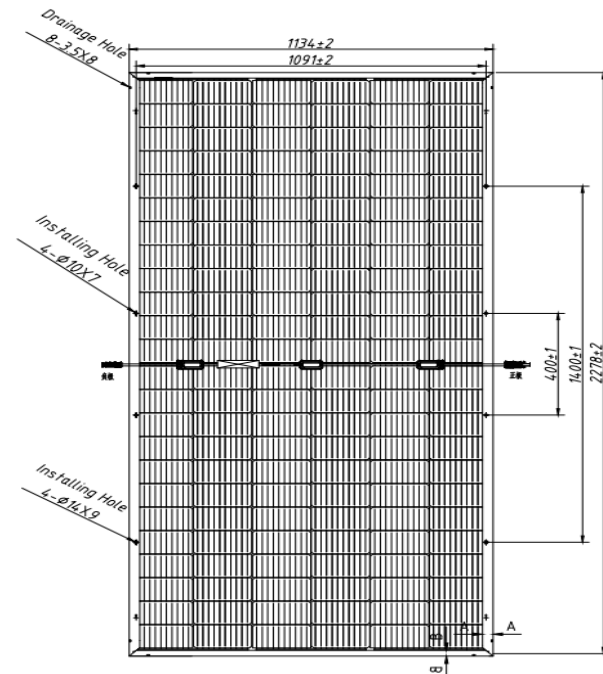
#### Packaging Configuration

Module per box	36/31 pieces
Module per 17.5 flatcar	864/868 pieces
Module per 40 container	684/620 pieces

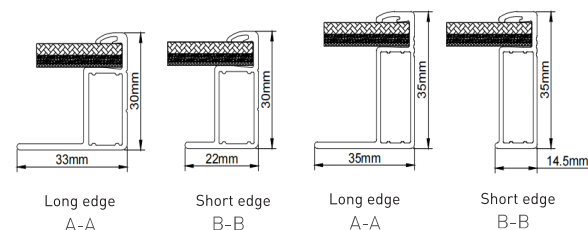
#### Optional

Connector	Original MC
Cable length	1200mm
Frame	Black
Glass	Black

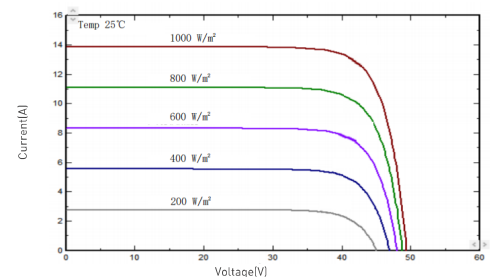
#### Module Dimension



#### Back View



#### I-V Curve at Different Temperature (540W)



#### I-V/P-V Curve at Different Irradiation (540W)

