



# TS-M12/132G

Monocrystalline Module

Bifacial Dual Glass

690W-730W

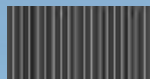
**730W**  
Maximum Power Output

**23.44%**  
Maximum Module Efficiency

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



## H-Type



18/20BB(210mm)

- **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 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>

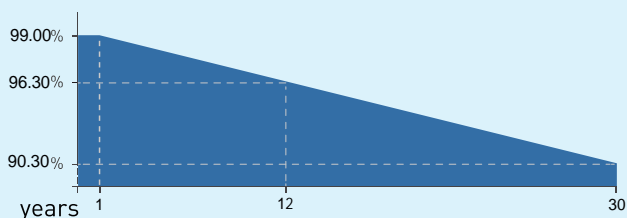
## Deliver Reliable Performance Over Time

- manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO9001:2015, SO14001: 2015 and ISO 45001:2008
- 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-M12/132G

## Monocrystalline Module

## Bifacial Dual Glass

### 690W-730W

#### Electrical Specification{ STC\*}

	Pmax{ W}	690	695	700	705	710	715	720	725	730
Maximum Power	Pmax{ W}	690	695	700	705	710	715	720	725	730
Maximum Power Voltage	Vmp{ W}	42.82	43.02	43.21	43.40	43.59	43.78	43.96	44.14	44.32
Maximum Power Current	Imp{ A}	16.14	16.18	16.23	16.27	16.30	16.33	16.39	16.43	16.48
Open Circuit Voltage	Voc{ V}	49.04	49.10	49.17	49.29	49.30	49.37	49.44	49.51	49.58
Short Circuit Current	Isc{ A}	17.14	17.22	17.31	17.39	17.47	17.55	17.62	17.70	17.78
Module Efficiency	{ %}	22.21	22.37	22.53	22.70	22.85	23.00	23.14	23.30	23.44
Power Output Tolerance	{ W}	0 ~ +3%								

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

#### Electrical Specification{ NOCT\*}

	Pmax{ W}	534	538	542	546	550	554	558	562	566
Maximum Power	Pmax{ W}	534	538	542	546	550	554	558	562	566
Maximum Power Voltage	Vmp{ W}	38.54	38.73	38.91	39.10	39.29	39.49	39.67	39.86	40.05
Maximum Power Current	Imp{ A}	13.86	13.90	13.93	13.96	14.00	14.03	14.07	14.10	14.13
Open Circuit Voltage	Voc{ V}	45.68	45.75	45.82	45.89	45.96	46.03	46.10	46.17	46.24
Short Circuit Current	Isc{ A}	14.63	14.43	14.50	14.57	14.63	14.70	14.77	14.84	14.91

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

#### Mechanical Data

Number of Cells	132 pieces [6 × 22]
Dimensions of Module L*W*H{ mm}	2384 × 1303 × 35mm
Weight{ kg}	Approx 38.7 kg
Front Side Glass	2.0mm , Anti-reflection coating glass
Back Side Glass	2.0mm , Heat Strengthened Glass
Frame	Anodized aluminium
J-Box	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 }	43 ± 3
Temperature Coefficient of Isc	+0.026%/
Temperature Coefficient of Voc	- 0.223%/
Temperature Coefficient of PMAX	- 0.243%/

#### Temperature Ratings

Operational Temperature	- 40~+85
Maximum System Voltage	1500V DC-[H]
Max Series Fuse Rating	35A

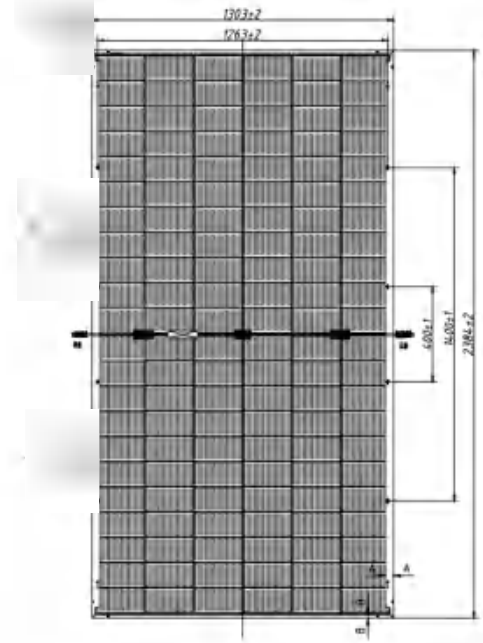
#### Packaging Configuration

Module per box	31 pieces
Module per 40 container	558 pieces

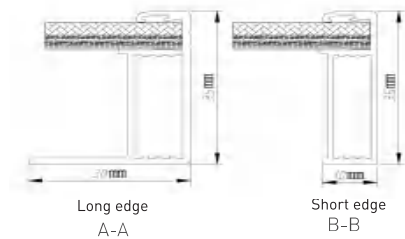
#### Optional

Connector	Original MC
Cable length	1200mm
Frame	Black
Glass	Black

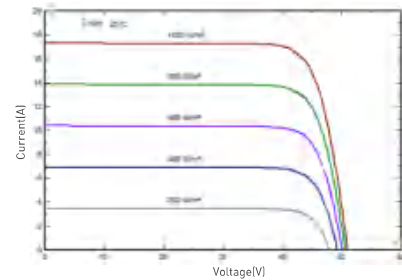
#### Module Dimension



#### Back View



#### I-V Curve at Different Temperature (700W)



#### I-V/P-V Curve at Different Irradiation (700W)

