



# DA-M10/144GN

Monocrystalline Module  
Bifacial Dual Glass  
565W-595W

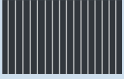
Grade A

**595W**  
Maximum Power Output

**23.0%**  
Maximum Module Efficiency

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

## TOPCON



18BB(182mm)

- FIRE CLASS C**  
Fire protection through double glazing according to safety requirements
- REINSURANCE COVERAGE**  
Doart 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</p>

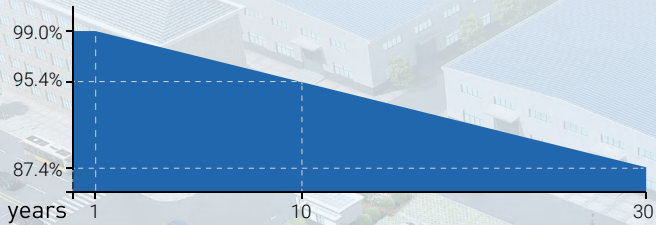
## Deliver Reliable Performance Over Time

- 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 ISO 45001:2008
- Tested for harsh environments (salt mist, ammonia corrosion, sand blowing test and PID 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



# DA-M10/144GN

## Monocrystalline Module Bifacial Dual Glass

### 565W-595W

#### Electrical Specification STC\*

Maximum Power	Pmax [W]	565	570	575	580	585	590	595
Maximum Power Voltage	Vmp [V]	42.14	42.29	42.44	42.59	42.75	42.90	43.06
Maximum Power Current	Imp [A]	13.41	13.48	13.55	13.62	13.69	13.76	13.82
Open Circuit Voltage	Voc [V]	50.87	51.07	51.27	51.47	51.67	51.87	52.07
Short Circuit Current	Isc [A]	14.19	14.25	14.31	14.37	14.43	14.49	14.55
Module Efficiency	[%]	21.90	22.10	22.30	22.50	22.70	22.90	23.00
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	Pmax [W]	425	429	432	436	440	444	448
Maximum Power Voltage	Vmp [V]	39.38	39.51	39.60	39.69	39.81	39.93	40.05
Maximum Power Current	Imp [A]	10.79	10.85	10.92	10.99	11.05	11.12	11.19
Open Circuit Voltage	Voc [V]	48.06	48.20	48.33	48.46	48.60	48.74	48.88
Short Circuit Current	Isc [A]	11.49	11.55	11.62	11.68	11.75	11.82	11.89

\* 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	2.0mm, Anti-reflection coating glass
Back Side Glass	2.0mm, Hightransparency solar glass
Frame	Anodized aluminium
J-Box	Protection level IP68
Cable	4.0mm <sup>2</sup> , 1200 mm
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

Temperature {NOCT} Nominal Operating Cell	44±2 C
Temperature Coefficient of Isc	+0.046%/C
Temperature Coefficient of Voc	-0.250%/C
Temperature Coefficient of PMAX	-0.300%/C

#### Temperature Ratings

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

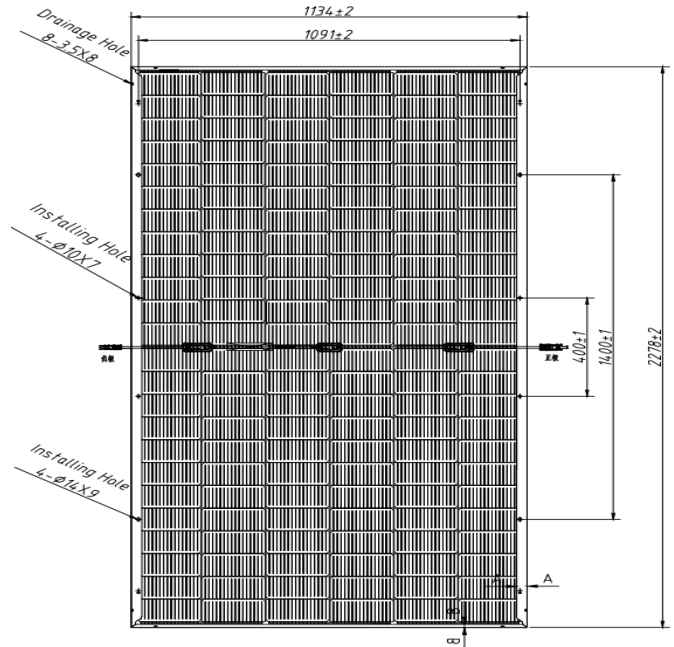
#### Packaging Configuration

Module per box	36/31 pieces
Module per 17.5 flatcar	864/868 pieces
Module per 40 container	720/620 pieces

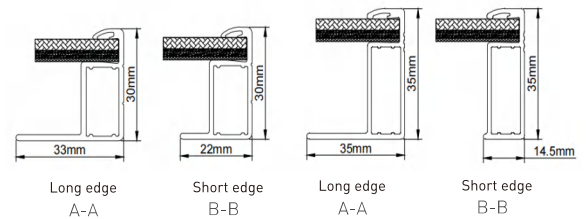
#### Optional

Connector	Original MC
Cable length	1200mm
Frame	Black
Backsheet	Black

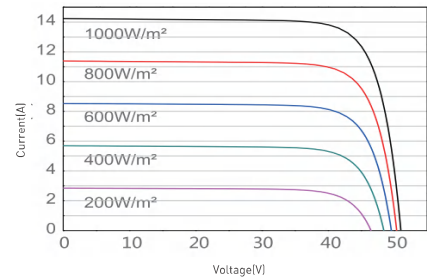
#### Module Dimension



#### Back View



#### I-V Curve at Different Temperature (590W)



#### I-V/P-V Curve at Different Irradiation (590W)

