

# CHASER-M12/150P 490-510W

MONO 9BB ONE THIRD-CUT MODULE

## HC-Chaser

SKA510M(HV)C

### 1.6°C

It's temperature is 1.6°C lower than that of the conventional module

### 4%

4% more energy generation



#### One third-Cut technique leads to increased power output

When the cells are cut into thirds, the current becomes one third of what it was, which enables less internal loss. Series-parallel wiring improves power performance. The working temperature of module and junction box are lower than that of conventional types, which effectively reduces the hot spot risk.



#### Series-parallel wiring mode results in reduced shading loss

Series-parallel wiring will not only reduce power loss from shade but also improves the effective use of supports and space.



#### Excellent temperature performance

The temperature of HC module is 1.6 °C lower than that of the conventional module under the same working condition, which results less power loss.



#### Reduced encapsulation loss due to reduced current

HC module is of lower current and lower CTM loss at around 0.2%, while the CTM loss of conventional module is 1%.



#### 1500V high system voltage design

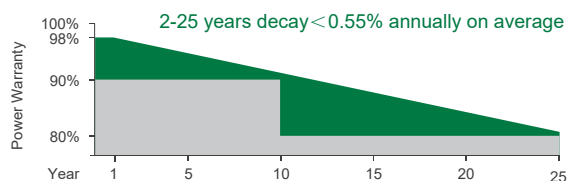
## LINEAR PERFORMANCE WARRANTY

12  
years

Product warranty on materials and workmanship

25  
years

Linear power output warranty



## CERTIFICATES

ISO 9001: 2015  
Quality Management System

IEC 61215 / IEC 61730

ISO 14001: 2015  
Environmental Management System

OHSAS 18001: 2007  
Occupational Health &  
Safety Management System

\*Certification requirements vary in different markets, please consult with Akcome Optronics sales team for appropriate certification.



All black /  
Black frame module

Appealing Exterior



#### ELECTRICAL PARAMETERS @ STC

|                               |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|
| Max. Power Output Pmax (W)    | 490   | 495   | 500   | 505   | 510   |
| Power Tolerance               | 0~+3% | 0~+3% | 0~+3% | 0~+3% | 0~+3% |
| Max. Power Voltage Vmp (V)    | 42.44 | 42.65 | 42.89 | 43.10 | 43.31 |
| Max. Power Current Imp (A)    | 11.55 | 11.61 | 11.66 | 11.72 | 11.78 |
| Open Circuit Voltage Voc (V)  | 51.12 | 51.32 | 51.52 | 51.72 | 51.92 |
| Short Circuit Current Isc (A) | 12.30 | 12.35 | 12.40 | 12.45 | 12.50 |
| Module Efficiency (%)         | 20.34 | 20.55 | 20.75 | 20.96 | 21.17 |

\*STC (Standard Test Condition): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5

\*Measurement Tolerance (±3.0%)

#### ELECTRICAL PARAMETERS @ NOCT

|                               |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|
| Max. Power Output Pmax (W)    | 366   | 370   | 374   | 378   | 380   |
| Max. Power Voltage Vmp (V)    | 39.08 | 39.25 | 39.45 | 39.62 | 40.22 |
| Max. Power Current Imp (A)    | 9.37  | 9.43  | 9.47  | 9.53  | 9.45  |
| Open Circuit Voltage Voc (V)  | 47.30 | 47.50 | 47.70 | 47.91 | 48.07 |
| Short Circuit Current Isc (A) | 9.93  | 9.98  | 10.03 | 10.09 | 10.00 |

\*NOCT(Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20 °C, Wind Speed 1m/s

#### TEMPERATURE COEFFICIENTS

|                                 |             |
|---------------------------------|-------------|
| Temperature Coefficients of Pmp | -0.34%/ °C  |
| Temperature Coefficients of Voc | -0.25%/ °C  |
| Temperature Coefficients of Isc | +0.040%/ °C |

#### MECHANICAL PARAMETERS

|                      |                            |
|----------------------|----------------------------|
| Cell Type            | Mono 210x70mm              |
| Number of Cells      | 150pcs(5x30)               |
| Dimensions ( L*W*H ) | 2187x1102x35mm             |
| Weight               | 26.3kg                     |
| Frame                | Anodised Aluminum          |
| Junction Box         | IP68, 3 bypass diodes      |
| Cable, Length        | 4.0mm <sup>2</sup> , 300mm |

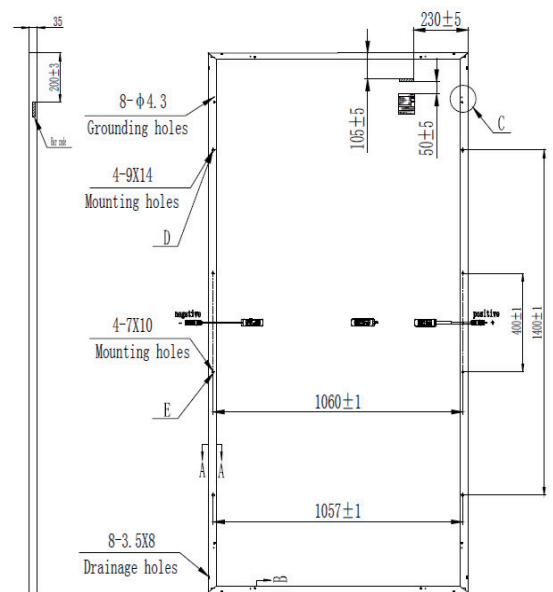
#### OPERATING CONDITION

|                                |           |          |
|--------------------------------|-----------|----------|
| Maximum System Voltage(V)      | 1000(DC)  | 1500(DC) |
| Operating Temperature(°C)      | -40~+85   |          |
| Max. Wind Load / Snow Load(pa) | 2400/5400 |          |
| Max. Series Fuse Rating (A)    | 20        |          |
| Fire Rating                    | Class C   |          |
| NOCT(°C)                       | 45±2      |          |

#### PACKAGE INFORMATION

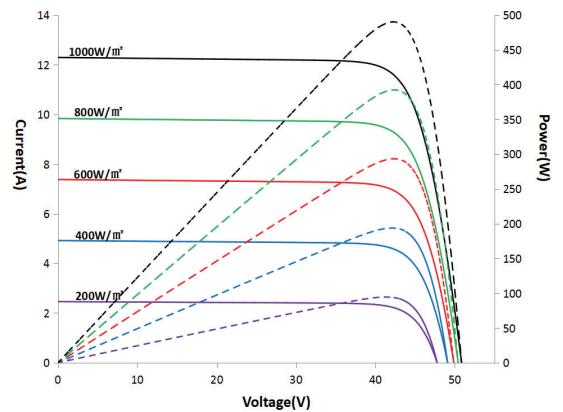
|                   |             |
|-------------------|-------------|
| Container 40'HQ   | 620pcs      |
| Quantity / Pallet | CTNR: 31pcs |

#### ASSEMBLY DRAWING (Unit:mm)



#### I-V CURVES

Test temperature 25°C



Irradiance: AM1.5, 1000W/m<sup>2</sup>

