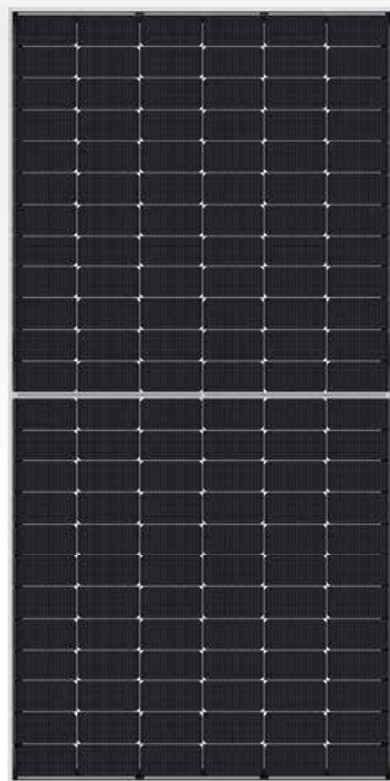




# HRAP-144H 525-550M10

**21.3%**

Maximum Module Efficiency

**550W**

Maximum Power Output

Power Shorting Tolerance:0~+3W

**2279×1134×35mm**

Module Dimensions

IEC 61215 / IEC 61730

Fire safty class:Class C according to UL790

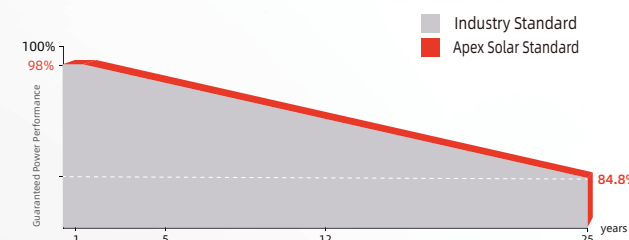
ISO 9001 :Quality Management System

ISO 14001 :Environment Management



**Industry Leading Linear Power Warranty**

12-year Warranty for Materials and Processing . 25-year Warranty for Extra Linear Power Output



**12 YEARS** Process Warranty

**25 YEARS** Power Warranty

## High Efficiency Half-cells Solar Panel HRAP-144H 525-550M10

### ELECTRICAL PARAMETERS AT STC

|                                 |       |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|-------|
| Rated Maximum Power(Pmax) [W]   | 525   | 530   | 535   | 540   | 545   | 550   |
| Maximum Power Voltage(Vmp) [V]  | 41.15 | 41.31 | 41.47 | 41.64 | 41.80 | 41.96 |
| Maximum Power Current(Impp) [A] | 12.76 | 12.83 | 12.90 | 12.97 | 13.04 | 13.11 |
| Open Circuit Voltage(Voc) [V]   | 49.15 | 49.30 | 49.45 | 49.60 | 49.75 | 49.90 |
| Short Circuit Current(Isc) [A]  | 13.65 | 13.72 | 13.79 | 13.86 | 13.93 | 14.00 |
| Module Efficiency [%]           | 20.3  | 20.5  | 20.7  | 20.9  | 21.1  | 21.3  |

STC: Irradiance 1000 W/m2 module temperature 25°C AM=1.5

### ELECTRICAL PARAMETERS AT NMOT

|                                 |       |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|-------|
| Rated Maximum Power(Pmax)[W]    | 397   | 401   | 405   | 408   | 412   | 416   |
| Maximum Power Voltage(Vmp) [V]  | 38.36 | 38.57 | 38.78 | 38.99 | 39.20 | 39.43 |
| Maximum Power Current(Impp) [A] | 10.35 | 10.39 | 10.43 | 10.47 | 10.51 | 10.55 |
| Open Circuit Voltage(Voc) [V]   | 46.05 | 46.18 | 46.31 | 46.43 | 46.55 | 46.68 |
| Short Circuit Current(Isc) [A]  | 10.97 | 11.01 | 11.05 | 11.09 | 11.13 | 11.17 |

NMOT: Irradiance 800 W/m2 ambient temperature 20°C wind speed: 1m/s

### MECHANICAL SPECIFICATION

|                   |                                                                       |
|-------------------|-----------------------------------------------------------------------|
| Cell Type         | Monocrystalline                                                       |
| Cell Dimensions   | 182×182mm                                                             |
| Cell Arrangement  | 144(6×24)                                                             |
| Weight            | 29.0kg(±3%)                                                           |
| Module Dimensions | 2279×1134×35mm                                                        |
| Cable             | 4.0 mm² positive/negative:300mm(11.8inches ),length Can be customized |
| Front Glass       | 3.2 mm high transmittance,AR coating tempered glass                   |
| Frame             | Anodized aluminium alloy                                              |
| Junction Box      | Protection class IP68                                                 |
| Type of Connector | PV-XT101.1 ( Suzhou Xtong Photovoltage Technology Co., Ltd)           |
| Mechanical Load   | Front side 5400Pa/Rear side 2400Pa                                    |

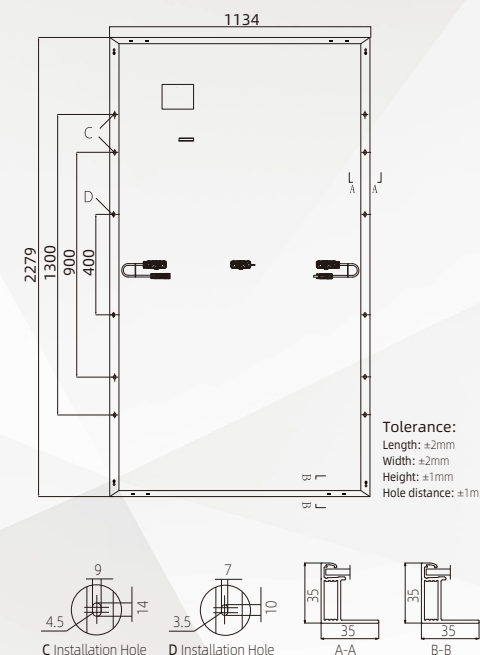
### OPERATING CONDITIONS

|                                    |                    |
|------------------------------------|--------------------|
| Maximum System Voltage (V)         | 1000/1500VDC (IEC) |
| Pmax Temperature Coefficient       | -0.34%/°C          |
| Voc Temperature Coefficient        | -0.28%/°C          |
| ISC Temperature Coefficient        | +0.05%/°C          |
| Nominal Operating Cell Temperature | 45±2°C             |
| Operating Temperature              | - 40°C~+85°C       |
| Maximum Series Fuse                | 20A                |

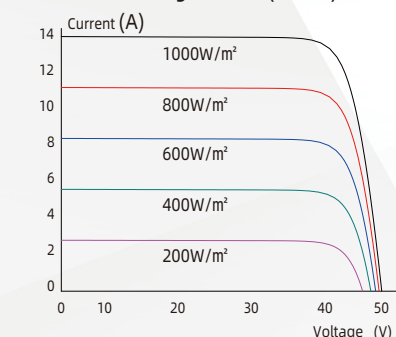
### PACKING CONFIGURATION

|                    |              |
|--------------------|--------------|
| Quantity/Pallet    | 31pcs/pallet |
| Quantity/Container | 620pcs/40HQ  |

### Module Dimension(mm)



### Current-Voltage Curve (550W)



### Power-Voltage Curve (550W)

