

# HRAP-144H-N565-N585M10

## N-TOPCon Technology

### 22.65%

Maximum Module Efficiency

### 585W

Maximum Power Output

Power Shorting Tolerance:0-3W

### 2279×1134×35mm

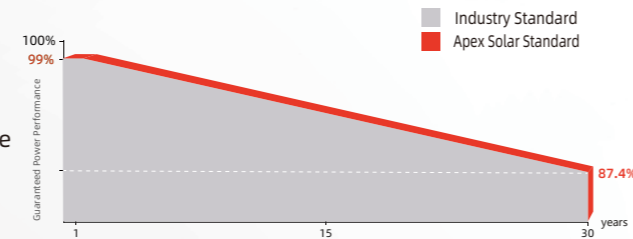
Module Dimensions

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 ,30-year Warranty for Extra Linear Power Output



Process Warranty Power Warranty

- 0-3w** Guaranteed 0-3w positive tolerance ensures the power output reliability
- High customer value** Lower cost per kilowatt hour.High quality silicon wafer guarantee, high power module output, excellent cost performance advantage, is an ideal choice for solar power stations
- Highly reliable due to stringent quality control** Three times strict EL testing beyond certification requirements
- Fusion of MBB and half-cut cells technology** The new circuit design, minimizes the impact of shadow on the power generation of solar module.Excellent light utilization and current collection capacity, effectively improve product power output and reliability
- Excellent Anti-PID performance** Ensure that the scale production passes the PID test, and greatly reduce the attenuation caused by PID by optimizing the wafer process
- Outstanding low light performance** The coated glass with high transmittance and the surface technology of the wafer are used to achieve excellent performance in low light environment

### ELECTRICAL PARAMETERS AT STC

|                                |       |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|-------|
| Rated Maximum Power(Pmax) [W]  | 565   | 570   | 575   | 580   | 585   |
| Maximum Power Voltage(Vmp) [V] | 41.92 | 42.07 | 42.22 | 42.37 | 42.52 |
| Maximum Power Current(Imp) [A] | 13.48 | 13.55 | 13.62 | 13.69 | 13.76 |
| Open Circuit Voltage(Voc) [V]  | 50.60 | 50.74 | 50.88 | 51.02 | 51.16 |
| Short Circuit Current(Isc) [A] | 14.23 | 14.31 | 14.39 | 14.47 | 14.55 |
| Module Efficiency [%]          | 21.87 | 22.07 | 22.26 | 22.45 | 22.65 |

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

### ELECTRICAL PARAMETERS AT NMOT

|                                |       |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|-------|
| Rated Maximum Power(Pmax)[W]   | 425   | 429   | 432   | 436   | 440   |
| Maximum Power Voltage(Vmp) [V] | 39.38 | 39.51 | 39.60 | 39.69 | 39.81 |
| Maximum Power Current(Imp) [A] | 10.79 | 10.85 | 10.92 | 10.99 | 11.05 |
| Open Circuit Voltage(Voc) [V]  | 48.06 | 48.20 | 48.33 | 48.46 | 48.60 |
| Short Circuit Current(Isc) [A] | 11.49 | 11.55 | 11.62 | 11.68 | 11.75 |

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

### MECHANICAL SPECIFICATION

|                   |   |
|-------------------|---|
| Cell Type         | N-Type Monocrystalline  |
| Cell Dimensions   | 182×182mm   |
| Cell Arrangement  | 144(2×72)   |
| Weight            | 28kg(±3%)   |
| Module Dimensions | 2279×1134×35mm  |
| Cable             | 4.0 mm <sup>2</sup> 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  |

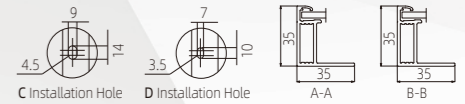
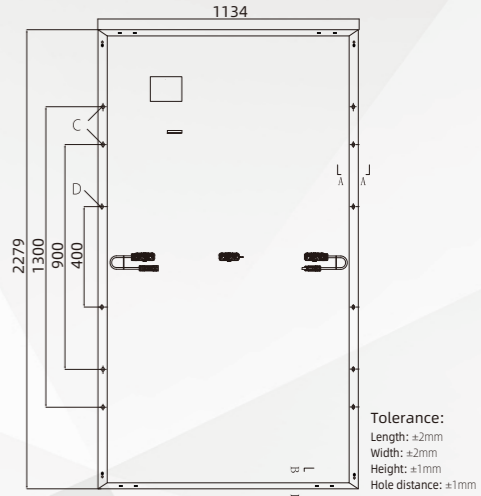
### OPERATING CONDITIONS

|                                    |                    |
|------------------------------------|--------------------|
| Maximum System Voltage (V)         | 1000/1500VDC (IEC) |
| Pmax Temperature Coefficient       | -0.30%/°C          |
| Voc Temperature Coefficient        | -0.25%/°C          |
| ISC Temperature Coefficient        | 0.046%/°C          |
| Nominal Operating Cell Temperature | 45±2°C             |
| Operating Temperature              | -40°C~+85°C        |
| Maximum Series Fuse                | 25A                |

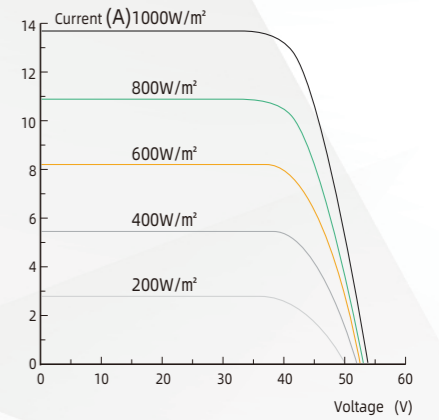
### PPACKING CONFIGURATION

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

### Module Dimension(mm)



### Current-Voltage Curve (585W)



### Power-Voltage Curve (585W)

