

HRAP-144H 525-550M10

21.3%
Maximum Module Efficiency

550W
Maximum Power Output

Power Shorting Tolerance:0~+3W

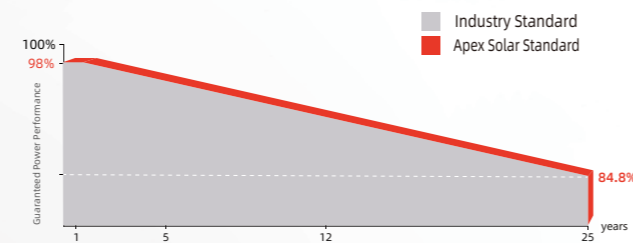
2279×1134×35mm
Module Dimensions

IEC 61215 / IEC 61730
Fire safety 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 Process Warranty **25** Power Warranty

ELECTRICAL PARAMETERS AT STC

| | 525 | 530 | 535 | 540 | 545 | 550 |
|---------------------------------|-------|-------|-------|-------|-------|-------|
| 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

| | 397 | 401 | 405 | 408 | 412 | 416 |
|---------------------------------|-------|-------|-------|-------|-------|-------|
| 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 mm ² 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 |

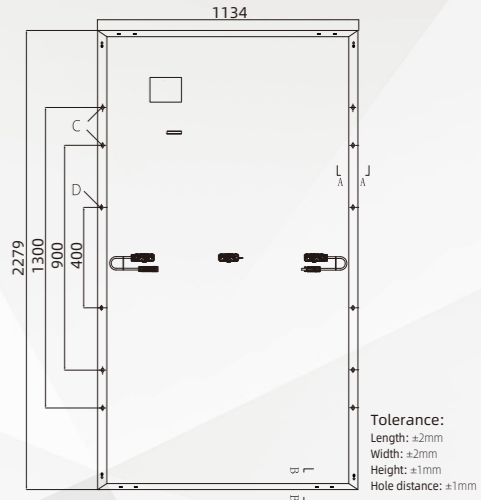
OPERATING CONDITIONS

| | |
|------------------------------------|-----------------|
| Maximum System Voltage (V) | 1000VDC/1500VDC |
| 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 |

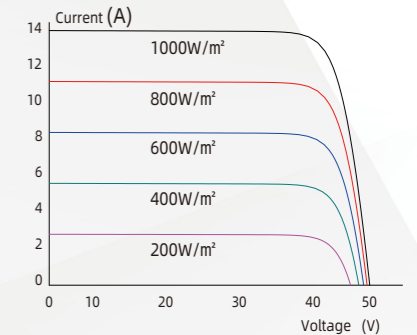
PACKING CONFIGURATION

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

Module Dimension(mm)



Current-Voltage Curve (550W)



Power-Voltage Curve (550W)

