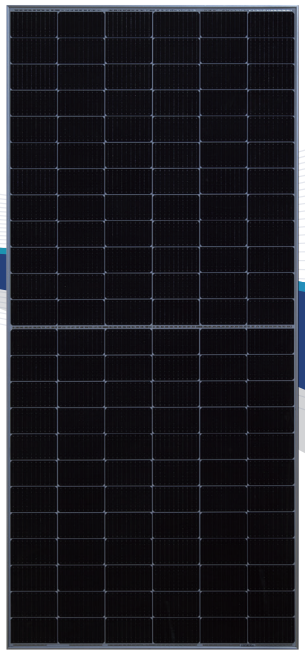
RUNERGY

# HY-WH144P8

# 535-555W

## 144 Pieces | HALF-CELL | P-Type



21.5%
Max.Efficiency

P-Type
Single Glass

### High Conversion Efficiency

Module efficiency up to 21.5% achieved through advanced cell technology and manufacturing process

### Excellent weak light performance

More power output in weak light condition, such as cloudy days, morning and sunset

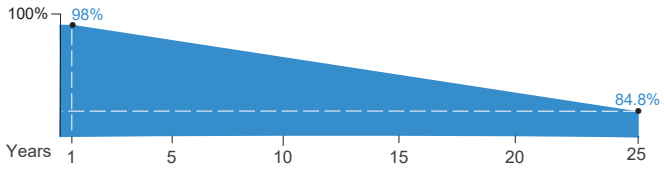
### Extended mechanical performance

Module certified to withstand extreme wind(2400 Pa) and snow loads(5400 Pa)

### Quality Guarantee

High module quality ensures long-term reliability

IEC61215 / IEC61730 / UL61730
IEC61701 / IEC62716 / IEC60068
ISO9001 / ISO14001/ ISO45001




Runergy P-Type Single Glass Product Performance Warranty

warranty for materials and workmanship — 12 Years

warranty for extra linear power output — 25 Years

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# HY-WH144P8-535/555

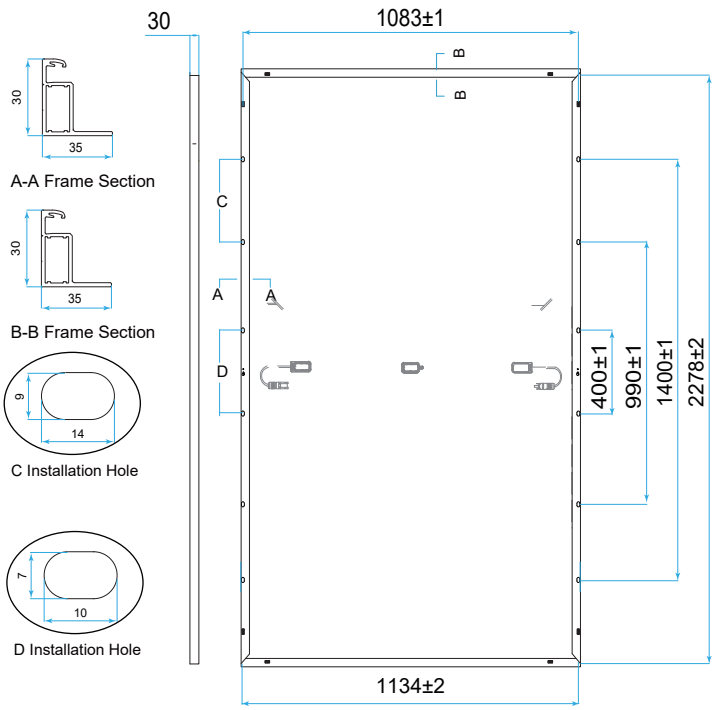
## Mechanical Parameters

| | |
|---|---|
| Solar Cell | Mono PERC 182 mm |
| No. of Cells | 144(6 × 24) |
| Dimensions | 2278 × 1134 × 30mm |
| Weight | 27.6kg |
| Junction Box | IP68 rated (3 bypass diodes) |
| Output Cable | 4mm² (IEC), 12 AWG(UL)<br>+400/-200mm or customized |
| Connector | RY01 or similar |
| Front Cover | 3.2mm AR Tempered glass |
| Container | 36 pcs/Pallet, 720 pcs/40' HC |

## Operating Parameters

| | |
|---|---|
| Max. System Voltage | DC 1500V(IEC) |
| Operating Temperature | -40°C ~ +85°C |
| Max. Fuse Rating | 25A |
| Frontside Max. Loading | 5400Pa |
| Backside Max. Loading | 2400Pa |
| Fire Resistance | IEC Class C |

Unit: mm




## Electrical Characteristics - STC

Irradiance 1000 W/m², ambient temperature 25 °C, AM1.5.

| | | | | | |
|---|---|---|---|---|---|
| Maximum Power at STC (Pmax/W) | 555 | 550 | 545 | 540 | 535 |
| Power Tolerance (W) | | | 0 ~ +5 | | |
| Optimum Operating Voltage (Vmp/V) | 42.12 | 41.96 | 41.80 | 41.64 | 41.47 |
| Optimum Operating Current (Imp/A) | 13.18 | 13.11 | 13.04 | 12.97 | 12.90 |
| Open Circuit Voltage (Voc/V) | 50.05 | 49.90 | 49.75 | 49.60 | 49.45 |
| Short Circuit Current (Isc/A) | 14.07 | 14.00 | 13.93 | 13.86 | 13.79 |
| Module Efficiency | 21.5% | 21.3% | 21.1% | 20.9% | 20.7% |

## Electrical Characteristics - NMOT

Irradiance 800 W/m², ambient temperature 20 °C, AM1.5, wind speed 1 m/s.

| | | | | | |
|---|---|---|---|---|---|
| Maximum Power at NMOT (Pmax/W) | 419.9 | 416.0 | 412.2 | 408.5 | 404.6 |
| Optimum Operating Voltage (Vmp/V) | 39.94 | 39.79 | 39.64 | 39.49 | 39.33 |
| Optimum Operating Current (Imp/A) | 10.51 | 10.46 | 10.40 | 10.34 | 10.29 |
| Open Circuit Voltage (Voc/V) | 47.46 | 47.32 | 47.18 | 47.04 | 46.89 |
| Short Circuit Current (Isc/A) | 11.35 | 11.30 | 11.24 | 11.18 | 11.13 |

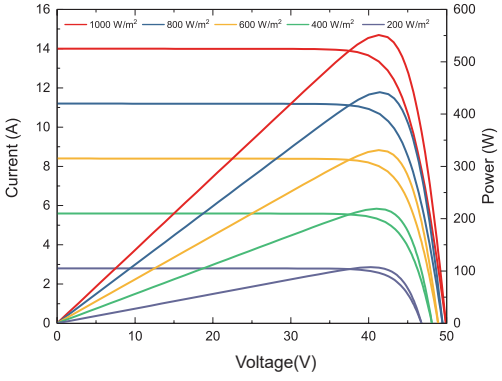
## Temperature Characteristics

| | |
|---|---|
| Nominal Module Operating Temperature | 42 ± 2 °C |
| Nominal Cell Operating Temperature | 45 ± 2 °C |
| Temperature Coefficient of Pmax | -0.35%/°C |
| Temperature Coefficient of Voc | -0.27%/°C |
| Temperature Coefficient of Isc | 0.050%/°C |

## Warranty

| | |
|---|---|
| Product Workmanship Warranty | 12 Years |
| Linear Power Output Warranty | 25 Years |
| First Year Degradation | 2% |
| Annual Power Degradation | 0.55% |

Current-Voltage & Power-Voltage Curve（550W）




Specifications included in this datasheet are subject to change without notice.