

Mono Half-cut Module

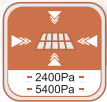
530W/535W/540W/545W/550W



Highest power output



Easy Installation and Handling for Various Application



Heavy snow load up to 5400 Pa,
wind load up to 2400 Pa



Conforms with IEC 61215, IEC 61730, UL 61730

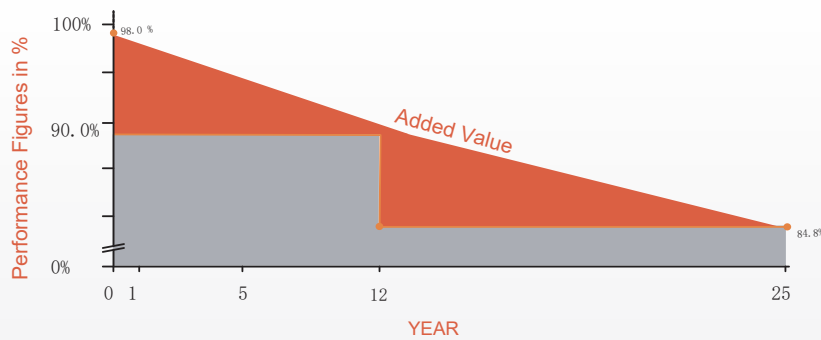
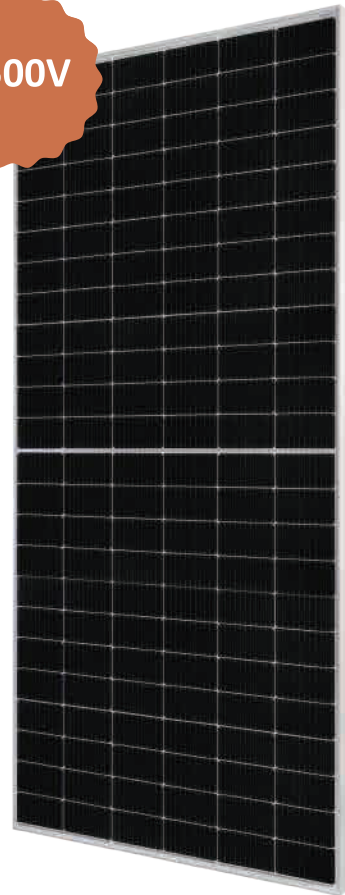


ISO9001, ISO14001, ISO45001



Application Class A, Safety Class II, Fire Type 1

1500V



12-year
material & workmanship

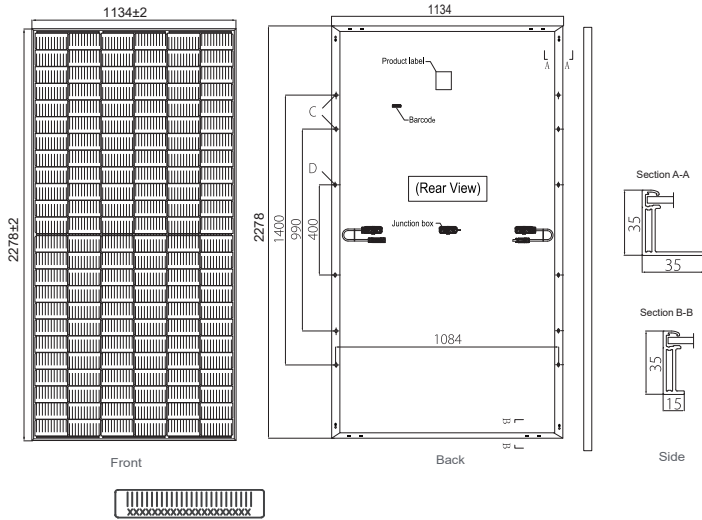
25-year
linear power output



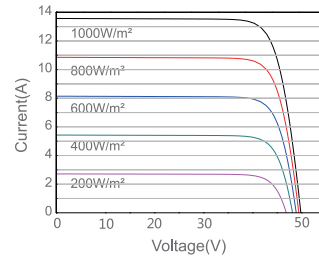
Mono Half-cell Module

530W/535W/540W/545W/550W

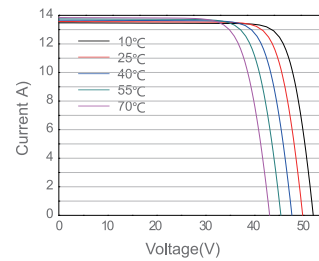
Dimension(mm)



I-V Curves



Current-Voltage Curve
NUSA144H-540M



Current-Voltage Curve
NUSA144H-540M

| Electrical Characteristics | NUSA144H-530M | NUSA144H-535M | NUSA144H-540M | NUSA144H-545M | NUSA144H-550M |
|--------------------------------|---|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax)[W] | 530 | 535 | 540 | 545 | 550 |
| Maximum Power Voltage (Vmp)[V] | 41.35 | 41.50 | 41.65 | 41.80 | 41.95 |
| Maximum Power Current (Imp)[A] | 12.82 | 12.90 | 12.97 | 13.04 | 13.11 |
| Open Circuit Voltage (Voc)[V] | 49.05 | 49.35 | 49.50 | 49.65 | 49.80 |
| Short Circuit Current (Isc)[A] | 13.65 | 13.71 | 13.85 | 13.92 | 13.99 |
| Module Efficiency[%] | 20.7 | 20.9 | 21.1 | 21.3 | 21.5 |
| Power Tolerance | 0~+5W | | | | |
| STC | Irradiance of 1000W/m ² , AM1.5, cell Temperature 25°C | | | | |

*Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

| Electrical Characteristics | NUSA144H-530M | NUSA144H-535M | NUSA144H-540M | NUSA144H-545M | NUSA144H-550M |
|--------------------------------|---|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax)[W] | 396 | 400 | 403 | 407 | 411 |
| Maximum Power Voltage (Vmp)[V] | 38.50 | 38.64 | 38.78 | 38.92 | 39.06 |
| Maximum Power Current (Imp)[A] | 10.28 | 10.34 | 10.40 | 10.46 | 10.52 |
| Open Circuit Voltage (Voc)[V] | 46.12 | 46.26 | 46.41 | 46.55 | 46.69 |
| Short Circuit Current (Isc)[A] | 11.09 | 11.15 | 11.20 | 11.25 | 11.30 |
| NOCT | Irradiance of 800W/m ² , AM1.5, Ambient Temperature 20°C, Wind Speed 1m/s. | | | | |

*For NexTracker installations static loading performance: front load measures 5400Pa, while back load measures 2400Pa.

Mechanical Characteristics

| | |
|----------------------|--|
| Cell Type | Mono perc, 182mm-half cells, 144(6x12+6x12) |
| Weight | 28.2kg |
| Dimension | 2278(±2mm) x 1134(±2mm) x 35 (±1mm) |
| Superstructure | High Transmission, Low Iron & Semi-Tempered Glass (3.2 mm) |
| Frame & Installation | Anodized aluminum profile |
| Junction box | 300 mm in length or customized length |
| Connector | Compatible with MC4 |

Characteristics

| | |
|--|------------|
| Temperature Coefficient of Voc | -0.270%/°C |
| Temperature Coefficient of Isc | +0.048%/°C |
| Temperature Coefficient of Pmax | -0.350%/°C |
| Nominal Operating cell Temperature(NOCT) | 45°C±2°C |
| Fire performance | UL Type1 |

Packing Information

| | | |
|-----------------------|--------|--------|
| Container | 20' GP | 40' HC |
| Pallets per Container | 5 | 20 |
| Pieces per Container | 155 | 620 |

Maximum Ratings

| | |
|----------------------------|--------------|
| Operating Temperature | -40°C~+85° |
| Maximum System Voltage | 1500VDC (EU) |
| Maximum Series Fuse Rating | 25A (EU) |



Production factory : PT IDN SOLAR TECH

Premium cell, Premium Modules
Version No: NUSA_EN_20211117

www.idnsolar.com