



NPV144-555M MB-8

- HALF-CELL MONO MODULE
- Positive power tolerance of 0~+3%
- IEC61215/IEC61730
- ISO9001:2015 ISO14001:2015



Mono Crystalline Half 144 Cells 525-555 watt



MBB Busbar Solar Cell

Multi busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.



High Efficiency

Higher module conversion efficiency (up to 21.50%) benefit from half cell structure (low resistance characteristic).



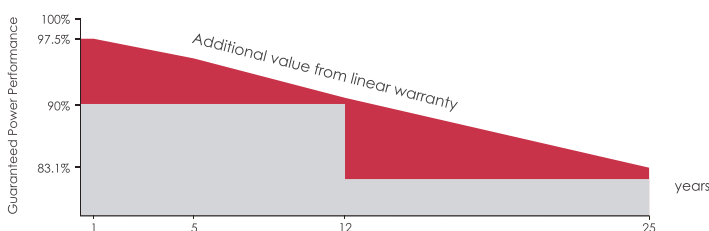
PID RESISTANT:

Excellent Anti-PID performance guarantee limited power degradation for mass production.

► Superior Warranty

NanoPV SOLAR PERFORMANCE WARRANTY

- linear performance warranty
- Standard performance warranty



Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



Severe Weather Resilience

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal)



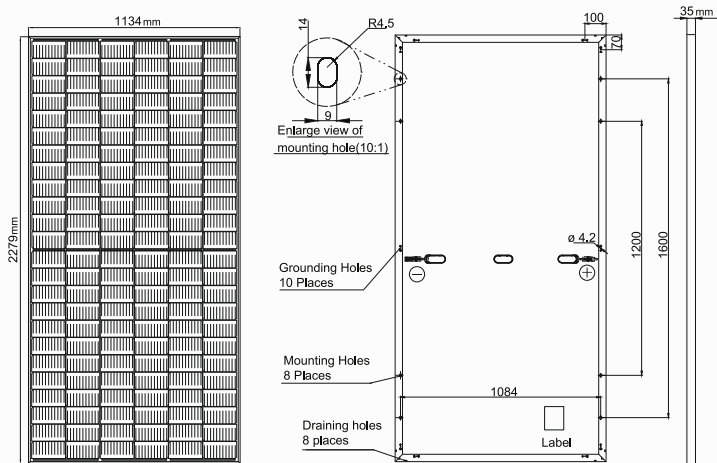
Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV Rheinland.

► Comprehensive Certificates

- IEC61215/IEC61730/IEC61701/IEC62716
- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO14064: Greenhouse Gases Emissions Verification
- OHSAS 18001: Occupation Health and Safety Management System

► DIMENSIONS OF PV MODULE(mm)



► MECHANICAL DIAGRAMS

| | |
|---------------|--|
| Cell Type | Mono PERC 182x91mm |
| No. of Cells | 6x12x2 |
| Dimensions | 2279x1134x35mm |
| Weight | 28.6kg |
| Front Glass | 3.2mm Anti-Reflection coating, High Transmission, Low Iron, Tempered Glass |
| Frame | Anodized Aluminium Alloy |
| J-Box | IP68 rated |
| Output Cables | TUV 1x4.0mm ² , Length 300*/400- (mm) length can be customized |

► Electrical Characteristics

| Module Type | NPV144-525M/MB-8 | | NPV144-530M/MB-8 | | NPV144-535M/MB-8 | | NPV144-540M/MB-8 | | NPV144-545M/MB-8 | | NPV144-550M/MB-8 | | NPV144-555M/MB-8 | |
|-----------------------------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 525Wp | 397Wp | 530Wp | 401Wp | 535Wp | 405Wp | 540Wp | 408Wp | 545Wp | 412Wp | 550Wp | 416Wp | 555Wp | 420Wp |
| Maximum Power Voltage (Vmp) | 41.15V | 38.36V | 41.31V | 38.57V | 41.47V | 38.78V | 41.64V | 38.99V | 41.80V | 39.20V | 41.96V | 39.43V | 42.13V | 39.64V |
| Maximum Power Current (Imp) | 12.76A | 10.35A | 12.83A | 10.39A | 12.90A | 10.43A | 12.97A | 10.47A | 13.04A | 10.51A | 13.11A | 10.55A | 13.18A | 10.59A |
| Open-circuit Voltage (Voc) | 49.30V | 46.05V | 49.37V | 46.18V | 49.45V | 46.31V | 49.60V | 46.43V | 49.75V | 46.55V | 49.82V | 46.68V | 49.90V | 46.90V |
| Short-circuit Current (Isc) | 13.72A | 10.97A | 13.75A | 11.01A | 13.79A | 11.05A | 13.86A | 11.09A | 13.93A | 11.13A | 13.96A | 11.17A | 14.00A | 11.21A |
| Module Efficiency (STC%) | 20.30% | | 20.50% | | 20.70% | | 20.90% | | 21.10% | | 21.30% | | 21.50% | |

► Temperature Ratings

| | |
|---|-------------|
| NMOT (Nominal Module Operating Temperature) | 45°C(±2°C) |
| Temperature Coefficient of Pmax | - 0.37%/°C |
| Temperature Coefficient of Voc | - 0.286%/°C |
| Temperature Coefficient of Isc | 0.057%/°C |

► Maximum Ratings

| | |
|-------------------------|--------------------|
| Operational Temperature | - 40~+85°C |
| Maximum System Voltage | 1000/1500VDC (IEC) |
| Max Series Fuse Rating | 25A |

► Warranty

| |
|---------------------------------------|
| 12 Years Product Workmanship Warranty |
| 25 Years Power Warranty |

► Packaging Configuration

| | |
|----------------------------|--------|
| Modules per pallet | 31pcs |
| Modules per 40HQ container | 620pcs |

► I-V-Curve

