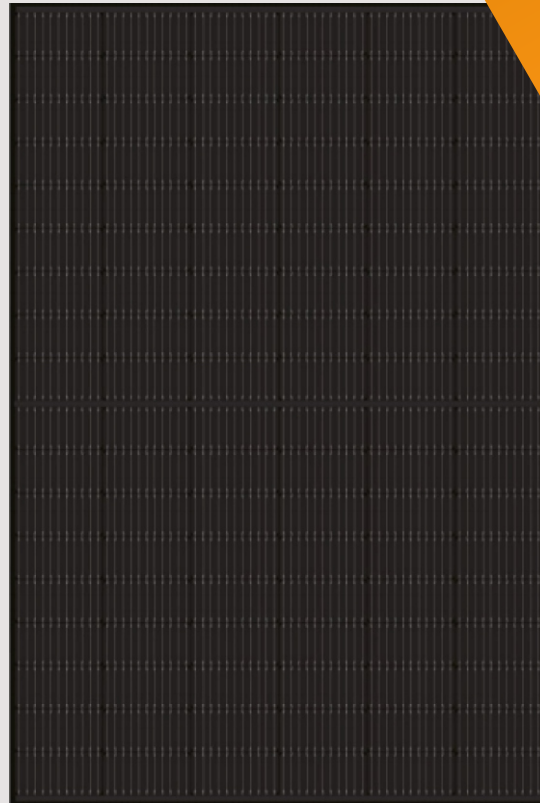




# NPV108-415M / MB-8

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



## FULL BLACK MONO MODULE 390W - 415W



### MBB Busbar Solar Cell

MBB 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 21.30%) benefit from half cell structure (low resistance characteristic).



### PID Resistance

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



### 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).

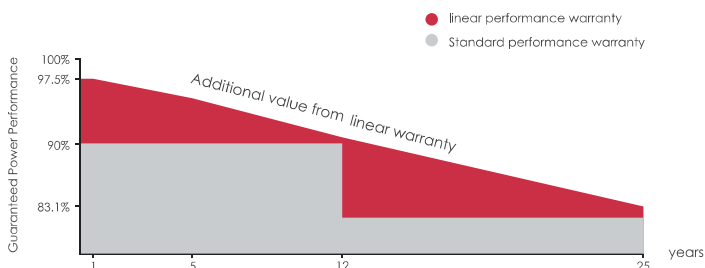


### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV Rheinland.

## ► Superior Warranty

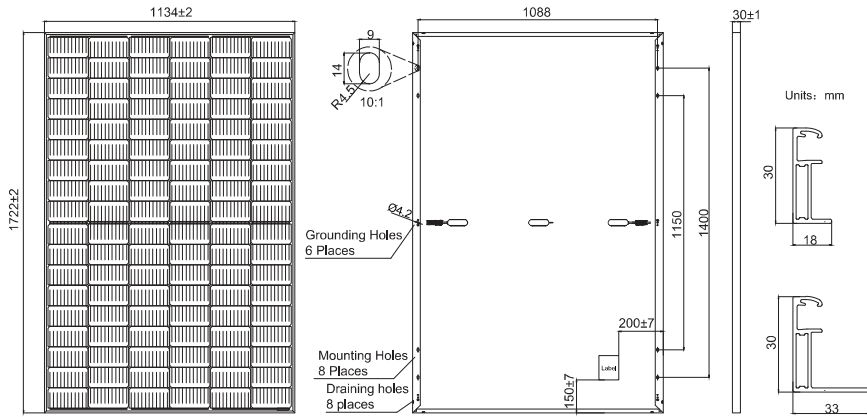
### SOLAR PERFORMANCE WARRANTY



## ► 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  | 6x9x2  |
| Dimensions    | 1722x1134x30mm   |
| Weight        | 21.5kg   |
| Front Glass   | 3.2mm, Anti-Reflection, Coating, High Transmission, Low Iron, Tempered Glass |
| Frame         | Anodized Aluminium Alloy   |
| J-Box         | IP68 Rated   |
| Output Cables | TÜV 1x4.0mm <sup>2</sup> Length 300+/400- (mm) length can be customized      |

## ► Electrical Characteristics

| Module Type                 | NPV108-390M/MB-8 |        | NPV108-395M/MB-8 |        | NPV108-400M/MB-8 |        | NPV108-405M/MB-8 |        | NPV108-410M/MB-8 |        | NPV108-415M/MB-8 |        |
|-----------------------------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|
|                             | STC              | NOCT   | STC              | NOCT   | STC              | NOCT   | STC              | NOCT   | STC              | NOCT   | STC              | NOCT   |
| Maximum Power (Pmax)        | 390Wp            | 294Wp  | 395Wp            | 298Wp  | 400Wp            | 302Wp  | 405Wp            | 306Wp  | 410Wp            | 310Wp  | 415Wp            | 314Wp  |
| Maximum Power Voltage (Vmp) | 30.64V           | 28.87V | 30.840V          | 29.08V | 31.01V           | 29.26V | 31.21V           | 29.47V | 31.45V           | 29.72V | 31.61V           | 29.89V |
| Maximum Power Current (Imp) | 12.73A           | 10.18A | 12.81A           | 10.25A | 12.90A           | 10.32A | 12.98A           | 10.38A | 13.04A           | 10.43A | 13.13A           | 10.50A |
| Open-circuit Voltage (Voc)  | 36.85V           | 34.62V | 36.98V           | 34.75V | 37.07V           | 34.88V | 37.23V           | 35.12V | 37.32V           | 35.23V | 37.45V           | 35.37V |
| Short-circuit Current (Isc) | 13.61A           | 10.89A | 13.70A           | 10.96A | 13.79A           | 11.03A | 13.87A           | 11.10A | 13.95A           | 11.16A | 14.02A           | 11.22A |
| Module Efficiency STC (%)   | 20.00%           |        | 20.20%           |        | 20.50%           |        | 20.70%           |        | 21.00%           |        | 21.30%           |        |

## ► Temperature Ratings

|   |             |
|---|-------------|
| NMOT (Nominal Module Operating Temperature) | 45°C (±2°C) |
| Temperature Coefficient of Pmax             | - 0.35%/°C  |
| Temperature Coefficient of Voc              | - 0.275%/°C |
| Temperature Coefficient of Isc              | 0.045%/°C   |

## ► Maximum Ratings

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

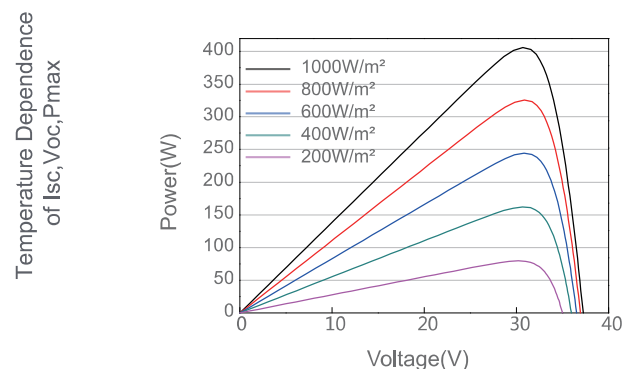
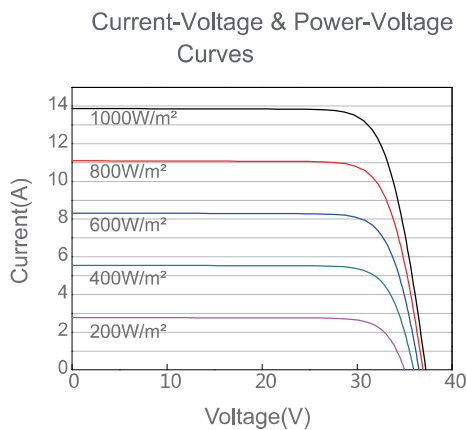
## ► Warranty

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

## ► Packaging Configuration

|                            |        |
|----------------------------|--------|
| Modules per pallet:        | 36pcs  |
| Modules per 40HQ container | 936pcs |

## ► I-V-Curve



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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