Honeywell

# HW-8N132-MF

# 695W~715W

## MONOCRYSTALLINE MODULE

## ADVANCED PERFORMANCE & PROVEN ADVANTAGES

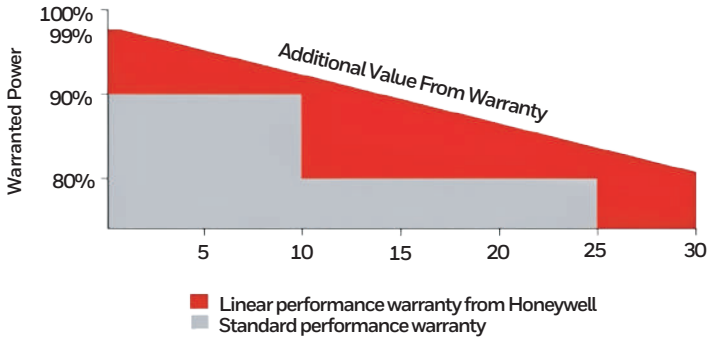
- High module conversion efficiency up to 23.02% by using the most advanced N-Type TOPCon cell technology.
- Lower annual power degradation and higher energy yield during the module's lifetime.
- Superior performance under high temperature and low light conditions.
- High load-bearing capacity which can withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Excellent reliability and durability against extreme environmental conditions (high resistance to salt mist, ammonia, sand, acid and alkali, etc).
- Potential induced degradation (PID) free

## CERTIFICATIONS

- IEC 61215, IEC 61730, CE
- ISO 9001:2015: Quality management system
- ISO 14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system

## SPECIAL WARRANTY

- 20 years product warranty
- 30 years linear power output warranty




**Passionately committed to delivering innovative energy solutions**

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## ELECTRICAL CHARACTERISTICS AT STC

| | | | | | |
|---|---|---|---|---|---|
| Maximum Power ($P_{max}$) | 695W | 700W | 705W | 710W | 715W |
| Open Circuit Voltage ($V_{oc}$) | 50.0 V | 50.2 V | 50.4 V | 50.6 V | 50.8V |
| Short Circuit Current ($I_{sc}$) | 17.39 A | 17.43 A | 17.47 A | 17.51 A | 17.55A |
| Voltage at Maximum Power ($V_{mp}$) | 42.0 V | 42.2 V | 42.4 V | 42.6V | 42.8 V |
| Current at Maximum Power ($I_{mp}$) | 16.55 A | 16.59 A | 16.63 A | 16.67 A | 16.71 A |
| Module Efficiency (%) | 22.37 | 22.53 | 22.70 | 22.86 | 23.02 |
| Operating Temperature | -40°C to +85°C | | | | |
| Maximum System Voltage | 1500V DC | | | | |
| Fire Resistance Rating | Class C | | | | |
| Maximum Series Fuse Rating | 30 A | | | | |

STC: Irradiance 1000W/m2, Cell temperature 25°C, AM1.5; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%

## ELECTRICAL CHARACTERISTICS AT NOCT

| | | | | | |
|---|---|---|---|---|---|
| Maximum Power ($P_{max}$) | 522W | 526W | 530W | 534W | 538W |
| Open Circuit Voltage ($V_{oc}$) | 47.0V | 47.2V | 47.4V | 47.6V | 47.8V |
| Short Circuit Current ($I_{sc}$) | 14.09 A | 14.12 A | 14.15 A | 14.18 A | 14.21 A |
| Voltage at Maximum Power ($V_{mp}$) | 39.0 V | 39.2 V | 39.4 V | 39.6 V | 39.8 V |
| Current at Maximum Power ($I_{mp}$) | 13.39 A | 13.42 A | 13.46 A | 13.49 A | 13.52 A |

NOCT: Irradiance 800W/m2, Ambient temperature 20°C, Wind Speed 1 m/s

## MECHANICAL CHARACTERISTICS

| | |
|---|---|
| Cell type | Monocrystalline N-type |
| Number of cells | 132 (6x22) |
| Module dimensions | 2384x1303x30mm |
| Weight | 34 kg |
| Front cover | 3.2mm tempered glass with AR coating |
| Frame | Anodized aluminum alloy |
| Junction box | IP68, 3 diodes |
| Cable | 4mm2, Length: Portrait: 300mm: Landscape: 1400mm |
| Connector | MC4 compatible |

## TEMPERATURE CHARACTERISTICS

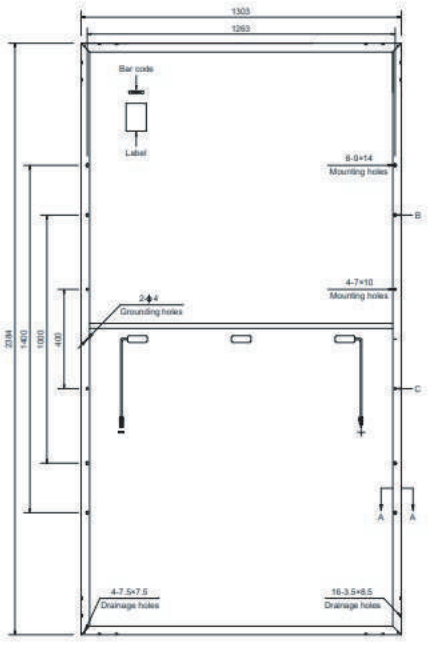
| | |
|---|---|
| Nominal Operating Cell Temperature (NOCT) | 43°C±2°C |
| Temperature Coefficients of Pmax) | -0.30%/°C |
| Temperature Coefficients of VOC | -0.25%/°C |
| Temperature Coefficients of ISC | 0.045%/°C |

## PACKAGING

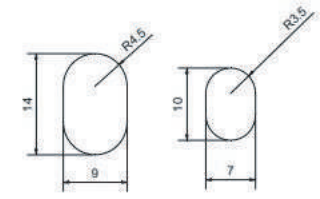
| | |
|---|---|
| Standard packaging | 36 pcs/pallet |
| Module quantity per 20' container | 144 pcs |
| Module quantity per 40' container | 648 pcs (HQ) |

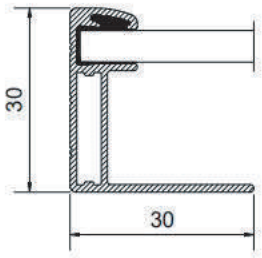
## ENGINEERING DRAWINGS

Unit: mm



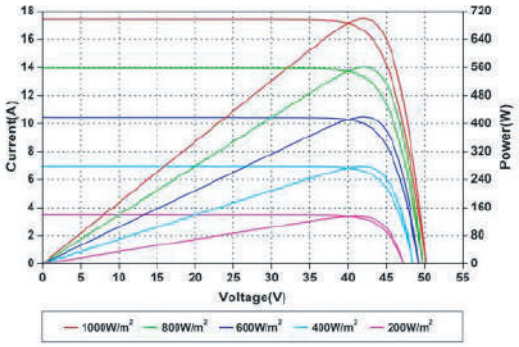

Rear View



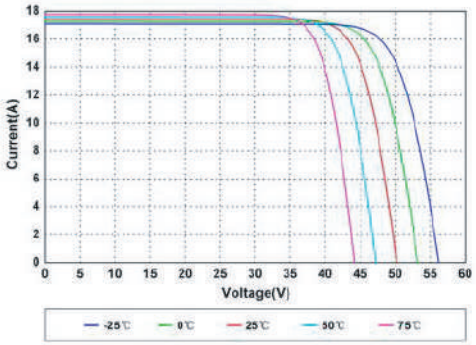




Section A-A

## IV CURVES




Current-Voltage and Power-Voltage Curves at Different Irradiances




Current-Voltage Curves at Different Temperatures