Honeywell

HW-7N144-MF 560W~590W

MONOCRYSTALLINE MODULE



ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 22.83% by using innovative N-Type Topcon cell technology.
- Extremely low LID (light induced degradation) and low annual power degradation ensure higher energy yield during the module's lifetime.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.

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

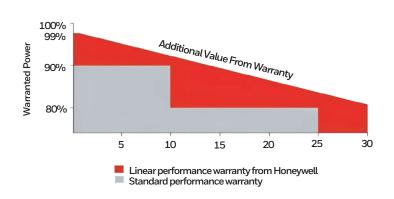
- 20 years product warranty
- 30 years linear power output warranty

Passionately

committed to

delivering innovative

energy solutions



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ELECTRICAL CHARACTERISTICS AT STO	•						
Maximum Power (Pmax)	560W	565W	570W	575W	580W	585W	590W
Open Circuit Voltage (Voc)	50.4 V	50.6 V	50.8 V	51.0 V	51.2 V	51.4 V	51.6 V
Short Circuit Current (Isc)	14.04 A	14.09 A	14.14 A	14.19 A	14.24 A	14.29 A	14.34 A
Voltage at Maximum Power (Vmp)	42.2 V	42.4 V	42.6 V	42.8 V	43.0 V	43.2 V	43.4 V
Current at Maximum Power (Imp)	13.28 A	13.33 A	13.39 A	13.44 A	13.49 A	13.54 A	13.59 A
Module Efficiency (%)	21.67	21.86	22.06	22.25	22.44	22.64	22.83
Operating Temperature	-40°C to +85°C						
Maximum System Voltage	1000V DC/1500V DC						
Fire Resistance Rating	Class C						
Maximum Series Fuse Rating	25A						

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

ELECTRICAL CHARACTERISTICS AT NO	СТ						
Maximum Power (Pmax)	421W	425W	429W	433W	437W	441W	445W
Open Circuit Voltage (Voc)	47.9V	48.1V	48.3V	48.5V	48.7V	48.9V	49.1V
Short Circuit Current (Isc)	11.37 A	11.41 A	11.45 A	11.49 A	11.53 A	11.57 A	11.61 A
Voltage at Maximum Power (Vmp)	39.7 V	39.9 V	40.1 V	40.3 V	40.5 V	40.7 V	40.9 V
Current at Maximum Power (Imp)	10.61 A	10.66 A	10.70 A	10.75 A	10.80 A	10.85 A	10.90 A

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

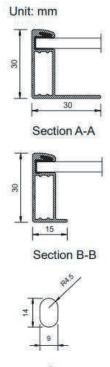
MECHANICAL CHARACTERISTICS				
Cell type	Monocrystalline N-type 182*91mm			
Number of cells	144 (6x24)			
Module dimensions	2278x1134x30mm (89.72x44.65x1.18 inches)			
Weight	27.5kg (60.6lbs)			
Front/Back Glass	3.2mm (0.13 inches) tempered glass with AR coating			
Frame	Anodized aluminum alloy			
Junction box	IP68, 3 diodes			
Cable	4mm2, Portrait: 300mm: Landscape: 1300mm Landscape: 1300mm (51.18 inches)			
Connector	MC4 or MC4 compatible			

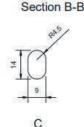
TEMPERATURE CHARACTERISTICS				
Nominal Operating Cell Temperature (NOCT)	43°C±2°C			
Temperature Coefficients of Pmax)	-0.30%/°C			
Temperature Coefficients of VOC	-0.25%/°C			
Temperature Coefficients of ISC	0.045%/°C			

PACKAGING	
Standard packaging	36 pcs/pallet
Module quantity per 20' container	180 pcs
Module quantity per 40' container	720 pcs (HQ)

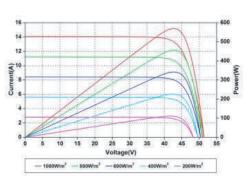
ENGINEERING DRAWINGS

1879 0 Rear View

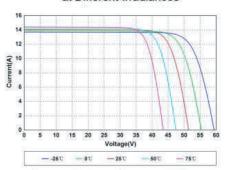




IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

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