Honeywell

HW-7N54HC-MF-BK

425W~445W

MONOCRYSTALLINE MODULE



ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module output up to 445W with module efficiency up to 22.79% by using the most advanced, N-Type TOPCon cell technology.
- Aesthetically appealing design with black back sheet and frame.
- Lower annual power degradation and high 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).

CERTIFICATIONS

- IEC 61215 (2021), IEC 61730 (2023), IEC 61701
- ā IEC 61215-2 (bifaciality): 2021
- ISO 9001:2015: Quality Management System
- ISO 14001:2015: Environment Management System
- ISO 45001:2018: Occupational health and safety management system





















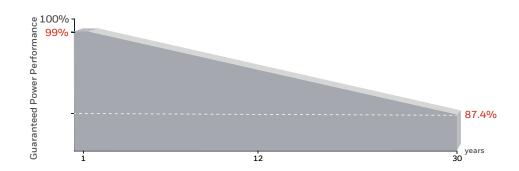
committed to

delivering innovative

energy solutions

SPECIAL WARRANTY

- 20 years product warranty
- 30 years linear power output warranty
- < 1 % First year power degradation
- < 0.4 % Year 2-30 power degradation



ELECTRICAL CHARACTERISTICS AT STC					
Maximum Power (Pmax)	425W	430W	435W	440W	445W
Open Circuit Voltage (Voc)	38.20V	38.40 V	38.60 V	38.75 V	38.90 V
Short Circuit Current (Isc)	13.98 A	14.09 A	14.18 A	14.26 A	14.33A
Maximum Power Voltage (Vmp)	32.10V	32.27 V	32.42 V	32.60V	32.80 V
Maximum Power Current(Imp)	13.24 A	13.33 A	13.42 A	13.50 A	13.57 A
Module Efficiency (%)	21.76%	22.02%	22.28%	22.53%	22.79 %
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1500V DC				
Fire Safety Class	Class C				
Maximum Series Fuse	25A				

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

ELECTRICAL CHARACTERISTICS AT NOCT					
Maximum Power (Pmax)	319.6 W	323.4W	327 W	330 W	333 W
Open Circuit Voltage (Voc)	36.29V	36.48 V	36.60 V	36.70 V	36.80V
Short Circuit Current (Isc)	11.28 A	11.37 A	11.44 A	11.50 A	11.56A
Voltage at Maximum Power (Vmp)	30.21 V	30.37 V	30.50 V	30.61 V	30.72 V
Current at Maximum Power (Imp)	10.58 A	10.65 A	10.72 A	10.78 A	10.84 A

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

MECHANICAL CHARACTERISTICS				
Cell type	Monocrystalline Silicon N-type (182x91mm)			
Number of cells	108 (6x9x2)			
Module dimensions	1722x1134x30mm			
Weight	20.5kg			
Front cover	low-iron tempered glass / 3.2mm			
Backsheet	Black			
Frame	Aluminum hollow-chamber frame, nodized aluminum alloy black			
Junction box	IP68, 3 diodes			
Cable	4mm2, 300mm in length, length can be customized			
Connector	MC4 compatible			

TEMPERATURE CHARACTERISTICS			
Nominal Operating Cell Temperature (NOCT) 45°C±2°C			
Temperature Coefficients of Pmax	-0.30%°C		
Temperature Coefficients of VOC	-0.24%°C		
Temperature Coefficients of ISC	0.043%°C		

PACKAGING	
Standard packaging	36 pcs/pallet
Module quantity per 20' container	216 pcs
Module quantity per 40' container	936 pcs (HQ)

ENGINEERING DRAWINGS

CURRENT-VOLTAGE CURVES

