

Mono Perc

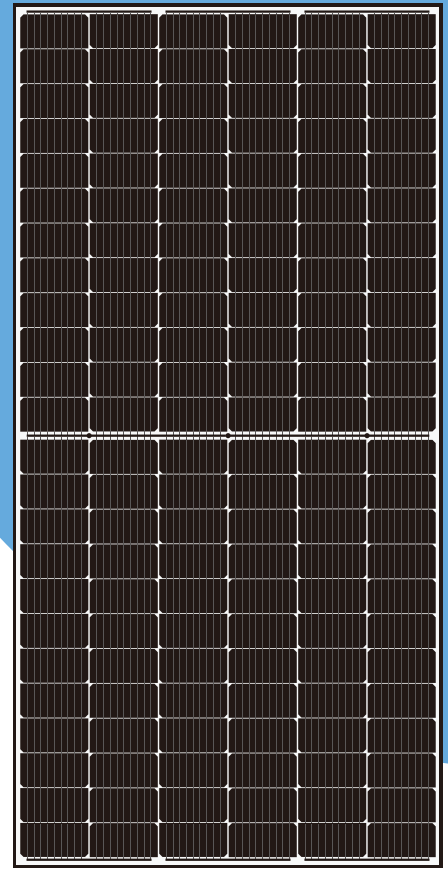
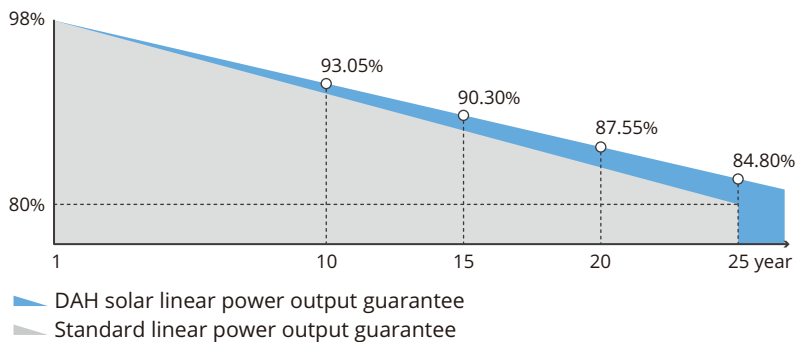
# DHM-72L9

Half-Cell High Efficiency **Black frame** PV Module

## Quality Guarantee

**12-year** Material & technology warranty

**25-year** Linear power output warranty



# 430~460W<sup>0 ~ +5W</sup>

Max  
Module  
Efficiency

**21.16%**



### Optimal Process Design

166mm+9BB+Half-cut, higher power output



### Select Grade A Crystalline Silicon Solar Cells

Grade A crystalline silicon solar cells make high-power output with cost-effective



### Stable Generation Performance

Guaranteed 0~+5W positive tolerance and slower power attenuation: first year ≤2%, 0.55% per year from 2-25



### Process Upgraded

Lower risk of hot spot and stronger anti-PID ability



### Higher Power Gains and Lower Losses

Excellent low irradiance performance and low shadow loss



### Strong Environmental Adaptability and Great Durability

Certified by Dust-Sand, Salt-Mist, Ammonia etc. weather resistance tests and enhanced mechanical load: wind load (2400 Pascal) and snow load (5400 Pascal)

## Comprehensive Products and System Certificates



IEC 61215 / IEC 61730 / CE / INMETRO

ISO 9001-

2015/Quality management system

ISO 14001-

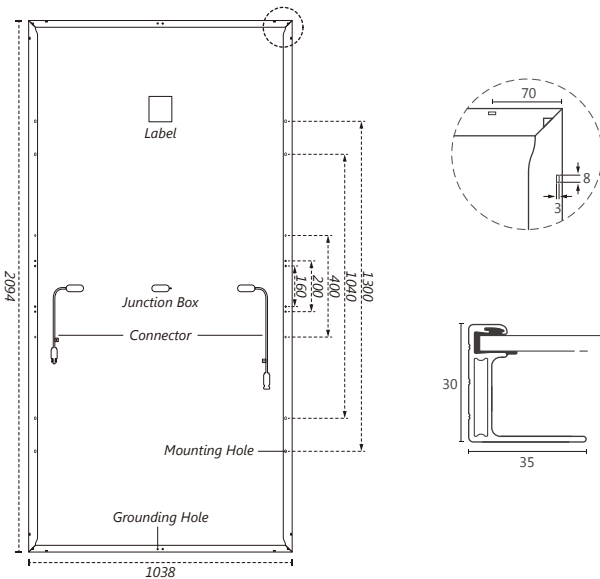
2015/Standards for environmental management system

OHSAS 18001-

2007/International standards for occupational health & safety

# DHM-72L9 430~460W

## Design



## Mechanical Specification

Cells Type  
**Mono 166×83mm**

Weight  
**23.5kg**

Cable  
(Including connector)  
No. of Cells  
Glass  
Junction box  
Connector

Dimension (L×W×T)  
**2094×1038×30mm**

Packing  
**36pcs/pallet, 792pcs/40HQ**

4.0mm<sup>2</sup>, Portrait: 300mm(+)/400mm(-)  
Landscape: 1400mm(+)/1400mm(-)  
144 (6×24)  
3.2mm High Transmission, Antireflection Coating  
IP68, 3 Bypass Diodes  
MC4 Compatible

## Operating Parameters

Maximum system voltage 1000V/1500V DC  
Operating Temperature -40 ~ +85°C  
Maximum series fuse rating 20A  
Snow load, frontside 5400Pa  
Wind load, backside 2400Pa  
Nominal operating cell temperature 45°C±2°C  
Application level Class A

## STC-Electrical Characteristics

Module Type	DHM-72L9						
Maximum Power (P <sub>max</sub> )	430W	435W	440W	445W	450W	455W	460W
Open-circuit Voltage (V <sub>oc</sub> )	48.70V	48.85V	49.00V	49.15V	49.30V	49.45V	49.60V
Maximum Power Voltage (V <sub>mp</sub> )	41.51V	41.66V	41.81V	41.96V	42.11V	42.26V	42.41V
Short-circuit Current (I <sub>sc</sub> )	11.23A	11.26A	11.29A	11.32A	11.35A	11.38A	11.41A
Maximum Power Current (I <sub>mp</sub> )	10.36A	10.44A	10.52A	10.61A	10.69A	10.77A	10.85A
Module Efficiency (%)	19.78%	20.01%	20.24%	20.47%	20.70%	20.93%	21.16%
Temperature Coefficient of I <sub>sc</sub>	0.05%/°C						
Temperature Coefficient of V <sub>oc</sub>	-0.31%/°C						
Temperature Coefficient of P <sub>max</sub>	-0.35%/°C						

Standard Test Environment : Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, Spectrum AM1.5

## NOCT-Electrical Characteristics

Maximum Power (P <sub>max</sub> )	323W	327W	331W	334W	338W	342W	346W
Open-circuit Voltage (V <sub>oc</sub> )	46.09V	46.23V	46.37V	46.51V	46.66V	46.80V	46.94V
Maximum Power Voltage (V <sub>mp</sub> )	39.28V	39.43V	39.57V	39.71V	39.85V	39.99V	40.14V
Short-circuit Current (I <sub>sc</sub> )	9.06A	9.09A	9.11A	9.13A	9.16A	9.18A	9.21A
Maximum Power Current (I <sub>mp</sub> )	8.23A	8.29A	8.36A	8.42A	8.49A	8.55A	8.61A

Standard Test Environment : Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

## I-V Curve (DHM-72L9-440W)

