DAH Solar
www.dahsolarpv.com

GLOBAL PATENTS

DHM-72X10/FS

# 540~555W

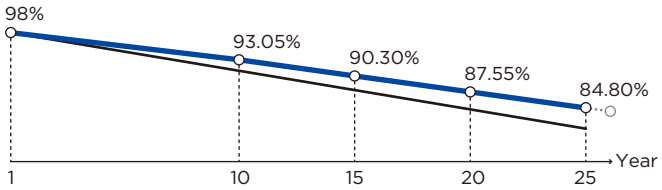
# [ Full Screen ] PV Module

***No Dust and Dirt on the Surface Increase Power Generation***

## Quality Guarantee

**12-year** → Material & technology warranty

**25-year** → Linear power output warranty




DAH Solar Linear power output gurarantee
Standard Linear power output gurarantee

## Comprehensive Products & System Certificates

**IEC 61215 / IEC 61730 / CE / FIDE / INMETRO**
**ISO 45001**: 2018/International standards for occupational health & safety
**ISO 14001**: 2015/Standards for environmental management system
**ISO 9001**: 2015/Quality management system

**Increase power generation by 6.15%+**
Panel is capable to decrease power generation loss caused by Dust, reduce the hot spot risk.

128°
**Curved Surface 128° R Angle**
**Reduce holding pressure by 75%+**
Curved Frame with ergonomic Design,optimized Delivery and Installation Experience.

**Revolutionary Assembling Technology**
Using excellent frame assembling technology, Strong Adhesion, Durable in Use.

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

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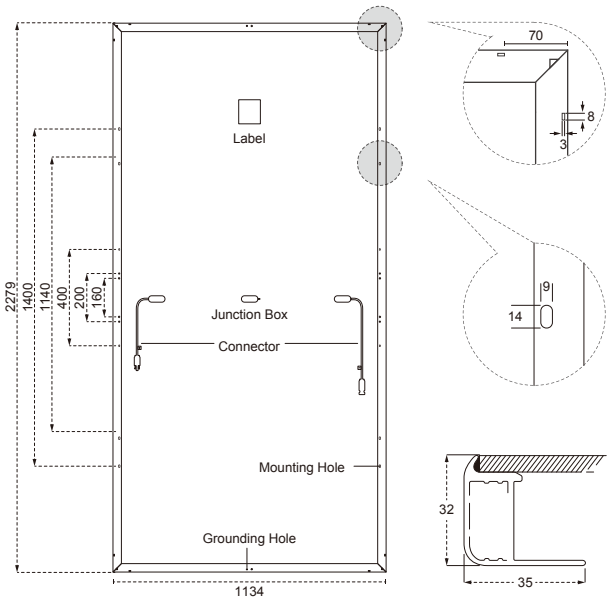
## Mechanical Specification

| | |
|---|---|
| Cable | 4.0mm², 300/400mm in length, |
| (Including connector) | length can be customized |
| No.of Cells | 144 (6×24) |
| Glass | 3.2mm High Transmission, Antireflection Coating |
| Junction box | IP68, 3 Bypass Diodes |
| Connector | MC4 Compatible |
| **Weight** | **29kg** |
| **Cells Type** | **Mono 182×91mm** |
| **Dimension (L×W×T)** | **2279×1134×32mm** |
| **Packing** | **34pcs/pallet, 680pcs/40HQ** |

## Design




## Operating Parameters

| | |
|---|---|
| Maximum system voltage | 1500V DC |
| Operating Temperature | -40 ~ +85°C |
| Maximum series fuse rating | 25A |
| Snow load, frontside/Wind load, backside | 5400Pa/2400Pa |
| Nominal operating cell temperature | 45°C±2°C |
| Application level | Class A |

## STC——Electrical Characteristics

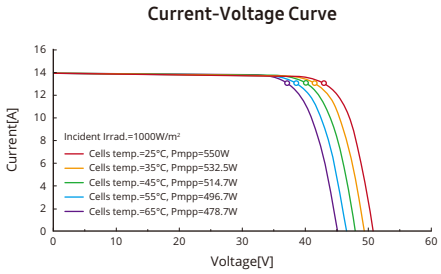
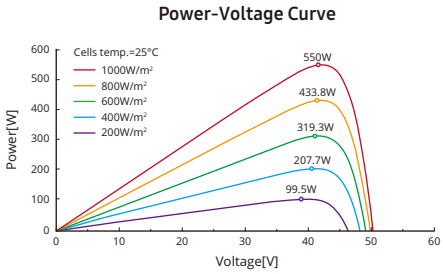
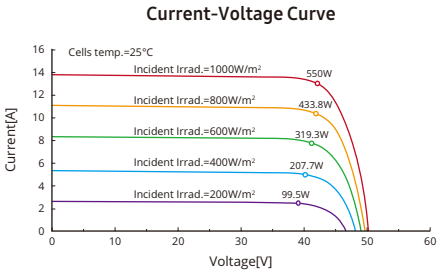
| **Module Type** | **DHM-72X10/FS** | | | |
|---|---|---|---|---|
| Maximum Power (Pmax/W) | 540 | 545 | 550 | 555 |
| Open-circuit Voltage (Voc/V) | 49.8 | 50.0 | 50.2 | 50.4 |
| Maximum Power Voltage (Vmp/V) | 42.0 | 42.2 | 42.4 | 42.6 |
| Short-circuit Current (Isc/A) | 13.66 | 13.72 | 13.78 | 13.84 |
| Maximum Power Current (Imp/A) | 12.86 | 12.91 | 12.97 | 13.03 |
| Module Efficiency (%) | 20.89 | 21.09 | 21.30 | 21.48 |

*Power Tolerance: 0~+5W, Temperature Coefficient of Isc: 0.05%/°C, Temperature Coefficient of Voc: -0.31%/°C, Temperature Coefficient of Pmax: -0.35%/°C*

*Standard Test Environment : Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5*

## NOCT——Electrical Characteristics

| | | | | |
|---|---|---|---|---|
| Maximum Power (Pmax/W) | 402 | 405 | 409 | 413 |
| Open-circuit Voltage (Voc/V) | 46.7 | 46.9 | 47.1 | 47.3 |
| Maximum Power Voltage (Vmp/V) | 39.4 | 39.6 | 39.8 | 40.0 |
| Short-circuit Current (Isc/A) | 11.04 | 11.09 | 11.13 | 11.18 |
| Maximum Power Current (Imp/A) | 10.20 | 10.24 | 10.29 | 10.33 |

*Standard Test Environment : Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s*

## I-V Curve DHM-72X10/FS-550W