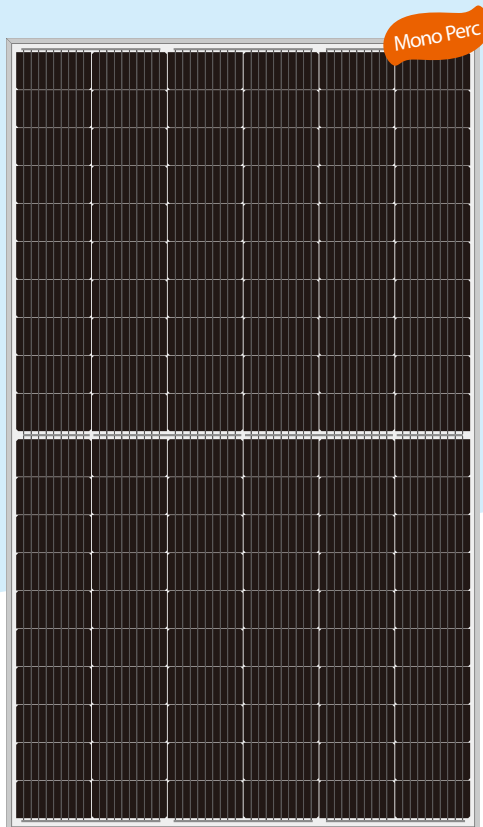


HCM60X9 325~345W

Half-Cell High Efficiency PV Module

 Europe
Solar
Production
<http://www.europe-solarproduction.com>



Comprehensive Products and System Certificates

IEC 61215 / IEC 61730 / CE / JPEA / FIDE / INMETRO

ISO 9001: 2015 / Quality management system

ISO 14001: 2015 / Standards for environmental management system

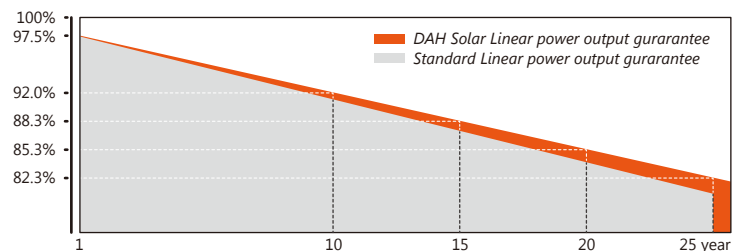
OHSAS 18001: 2007 / International standards for occupational health & safety



Quality Guarantee

12-year Material & technology warranty

25-year Linear power output warranty



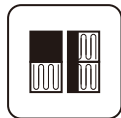
Max Module
Efficiency

20.45%



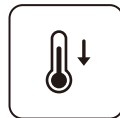
Half-cell & High eff.

9BB Half-cell technology,
Higher output power



Less Shading Effect

Unique circuit design,
Minimize shading effect



Lower Temperature

Lower temperature coefficient,
Lower hot spot temperature



Weather Resistance

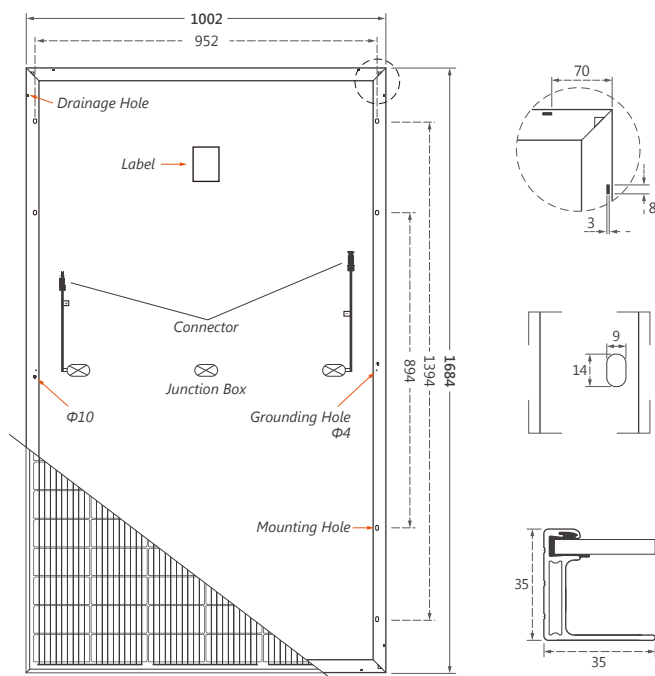
Pass Anti PID test. 100%
double EL test, Minimizes
micro-cracks



T6 Frame

T6 frame, better mechanical
load, safer and more
stable

Design



Mechanical Specification

| | |
|-------------------|--|
| Cells Type | Mono 158.75×79.375mm |
| Weight | 19kg |
| Dimension (L×W×T) | 1684×1002×35mm |
| Cable | 4.0mm ² , Portrait: 300mm(+)/400mm(-) (Including connector) Landscape: 1000mm(+)/1000mm(-) |
| No. of Cells | 120 (6×20) |
| Packing | 31pcs/pallet, 372pcs/20GP, 858pcs/40HQ |
| Glass | 3.2 mm High Transmission, Antireflection Coating |
| Junction box | IP68, 3 Bypass Diodes |
| Connector | QC4 or 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 |

Electrical Characteristics(STC)

| Module Type | HCM60X9-325W | HCM60X9-330W | HCM60X9-335W | HCM60X9-340W | HCM60X9-345W |
|--|--------------|--------------|--------------|--------------|--------------|
| Maximum Power (P _{max}) | 325W | 330W | 335W | 340W | 345W |
| Open-circuit Voltage (V _{oc}) | 40.4V | 40.6V | 40.8V | 41.0V | 41.2V |
| Maximum Power Voltage (V _{mp}) | 33.5V | 33.7V | 33.9V | 34.1V | 34.3V |
| Short-circuit Current (I _{sc}) | 10.27A | 10.33A | 10.39A | 10.46A | 10.53A |
| Maximum Power Current (I _{mp}) | 9.71A | 9.80A | 9.89A | 9.98A | 10.06A |
| Module Efficiency (%) | 19.26% | 19.56% | 19.85% | 20.15% | 20.45% |

| | |
|---|---|
| Power Tolerance | 0~+5W |
| Temperature Coefficient of I _{sc} | 0.05%/°C |
| Temperature Coefficient of V _{oc} | -0.29%/°C |
| Temperature Coefficient of P _{max} | -0.37%/°C |
| Standard Test Environment | Irradiance 1000W/m ² , Cell temperature 25°C, Spectrum AM1.5 |

Electrical Characteristics(NOCT)

| Module Type | HCM60X9-325W | HCM60X9-330W | HCM60X9-335W | HCM60X9-340W | HCM60X9-345W |
|--|---|--------------|--------------|--------------|--------------|
| Maximum Power (P _{max}) | 245W | 249W | 253W | 257W | 261W |
| Open-circuit Voltage (V _{oc}) | 39.4V | 39.7V | 40.1V | 40.4V | 40.7V |
| Maximum Power Voltage (V _{mp}) | 32.1V | 32.4V | 32.7V | 33.0V | 33.3V |
| Short-circuit Current (I _{sc}) | 8.11A | 8.18A | 8.22A | 8.28A | 8.32A |
| Maximum Power Current (I _{mp}) | 7.63A | 7.69A | 7.74A | 7.79A | 7.84A |
| Standard Test Environment | Irradiance 800W/m ² , Cell temperature 20°C, Spectrum AM1.5, Wind speed 1m/s | | | | |