

# DCH - HM6HBM1

MONOCRYSTALLINE PERC  
HALF-CELL MODULE

## DCH-HM6HBM1/72 - 450(R)

**144 CELL**

Mono PERC HC Module 9BB

**450 Wp**

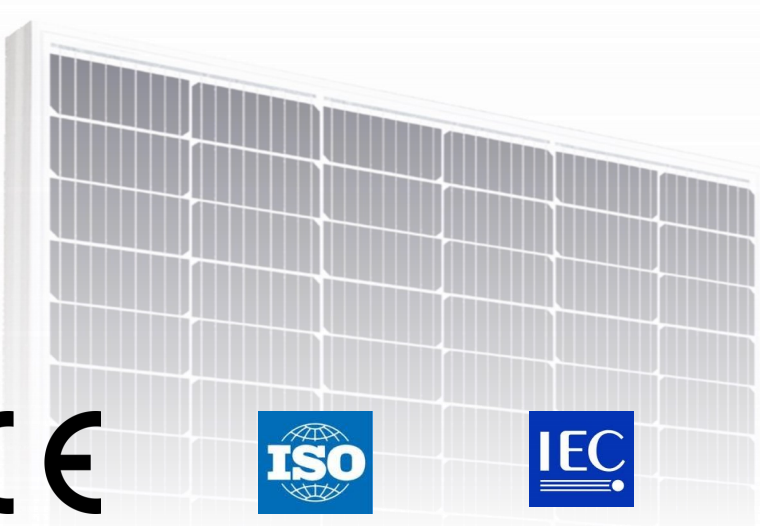
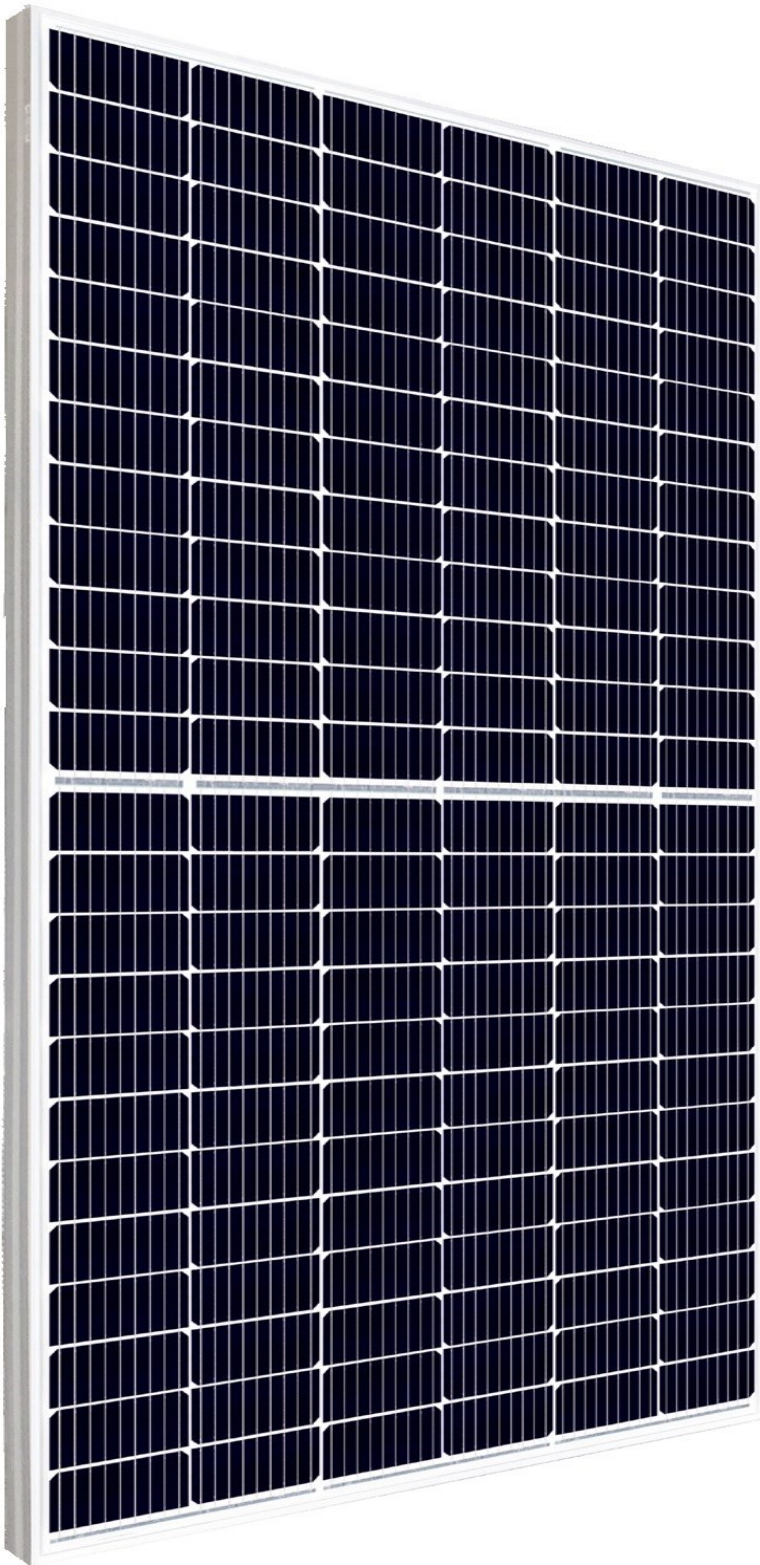
Power Output Range

**20.70%**

Efficiency

**0 /+5 W**

Positive Power Tolerance



### DCH Energy GmbH

DCH Energy since its establishment in Germany has achieved a recognizable position as photovoltaic technology and solution provider through a number of investments in Germany. Both the components and engineering used by DCH Energy are recognized worldwide. In the development of the projects, not only the construction management and operation are performed according to international standards. The DKB bank, the largest financing institute in Germany has also financially approved DCH Energy Products and technology for a number of projects. DCH Energy also owns solar assets in Europe, Asia and Africa. We have a global presence with more than 400 MWp of fully operational PV projects, including both ground mounted and rooftop solar projects. Our capabilities span the full PV supply chain, from ingot-wafer-cell-module production to turnkey installation and financing.

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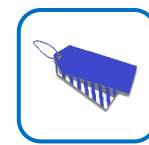
## Key Features



High performance in low irradiance conditions



Innovative World-Class quality products and high reliability due to stringent quality control and following international standards



Price Competitiveness in all project ranges



12 years product warranty



Suitable for harsh environments, such as coasts, deserts and lakes



**PID**

PID resistant and free of snail trails



Comprehensive Certificates

- IEC61215, IEC61730-1/2, IEC61701, IEC62716, IEC60068-2-68
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS18001: 2011 Occupational health and safety management systems



**ELECTRICAL DATA (STC)**

Model Number	DCH-HM6HBM1/72 - 450(R)
Nominal Power	450 Wp
Voltage at max. power Vmpp	41.56 V
Current at max. power Impp	10.83 A
Open circuit voltage Voc	49.35 V
Short circuit current Isc	11.61 A
Efficiency	20.70 %

Data applies to Standard Test Conditions (STC): Irradiance 1000W/m<sup>2</sup> with an AM of 1,5 and a cell temperature of 25°C

**ELECTRICAL DATA (NMOT)**

Model Number	DCH-HM6HBM1/72 - 450(R)
Nominal Power	337.42 Wp
Voltage at max. power Vmpp	38.74 V
Current at max. power Impp	8.71 A
Open circuit voltage Voc	46.77 V
Short circuit current Isc	9.41 A

NMOT: Irradiance 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

**MECHANICAL DATA**

Cell Type	P TYPE /M6/ PERC/Bifacial/9BB/HALF Cell 166×83mm
Cells per module	144 Cells (6*12*2 matrix)
Dimensions (tolerance +/- 1 mm)	2094 mm x 1038 mm x 35 mm
Weight	24.5 kg ±1kg
Glass	AR Coating tempered glass
Frame	Al 6063-T5/6005-T6
Backsheet	Fluoride or Fluoride-free backsheet
Max. Wind load	Refer to installation manual
Snow load	Refer to installation manual
Junction Box	Protection Degree IP68

**TEMPERATURE & MAXIMUM RATINGS**

Nominal power tolerance	0~+5%
Temperature Coefficient Pm%/°C	-0.340 %/°C
Temperature Coefficient Voc%/°C	-0.265 %/°C
Temperature Coefficient Isc%/°C	0.050 %/°C
Maximum System Voltage	1500 VDC
Operating temperature range	-40 ~ +85°C
Maximum series fuse rating	20 A

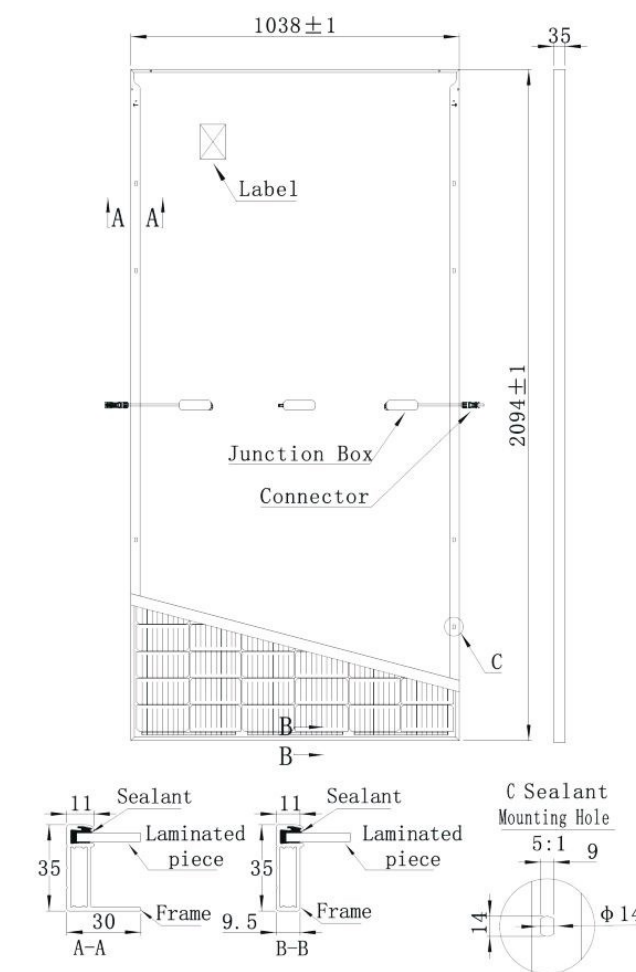
**WARRANTY**

12 years Product Warranty  
25 years Performance Warranty

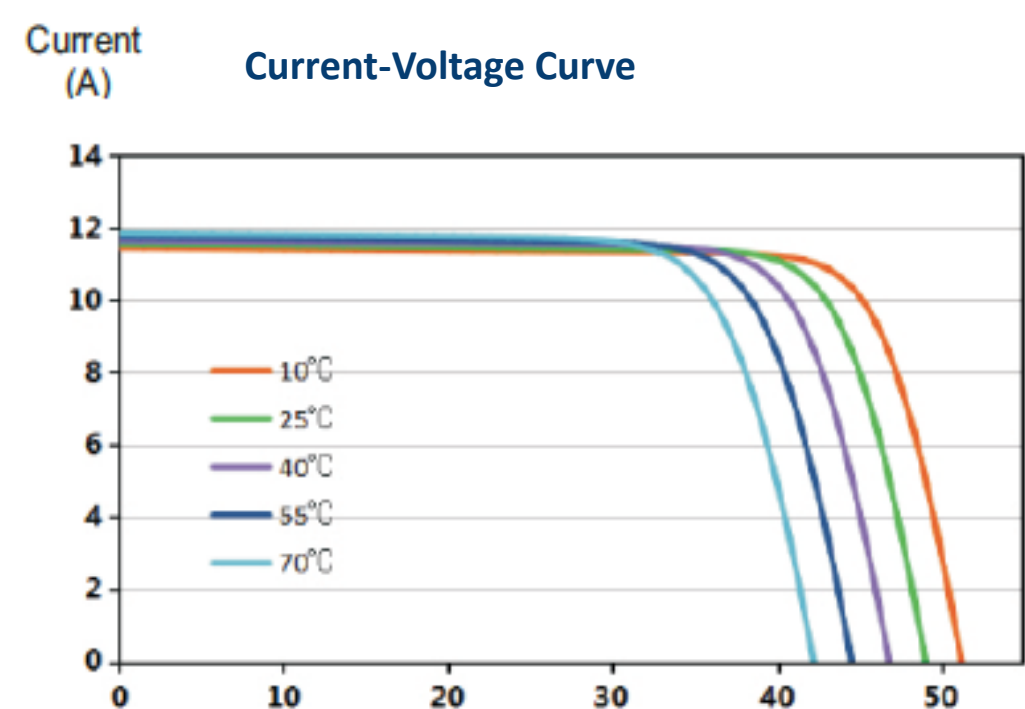
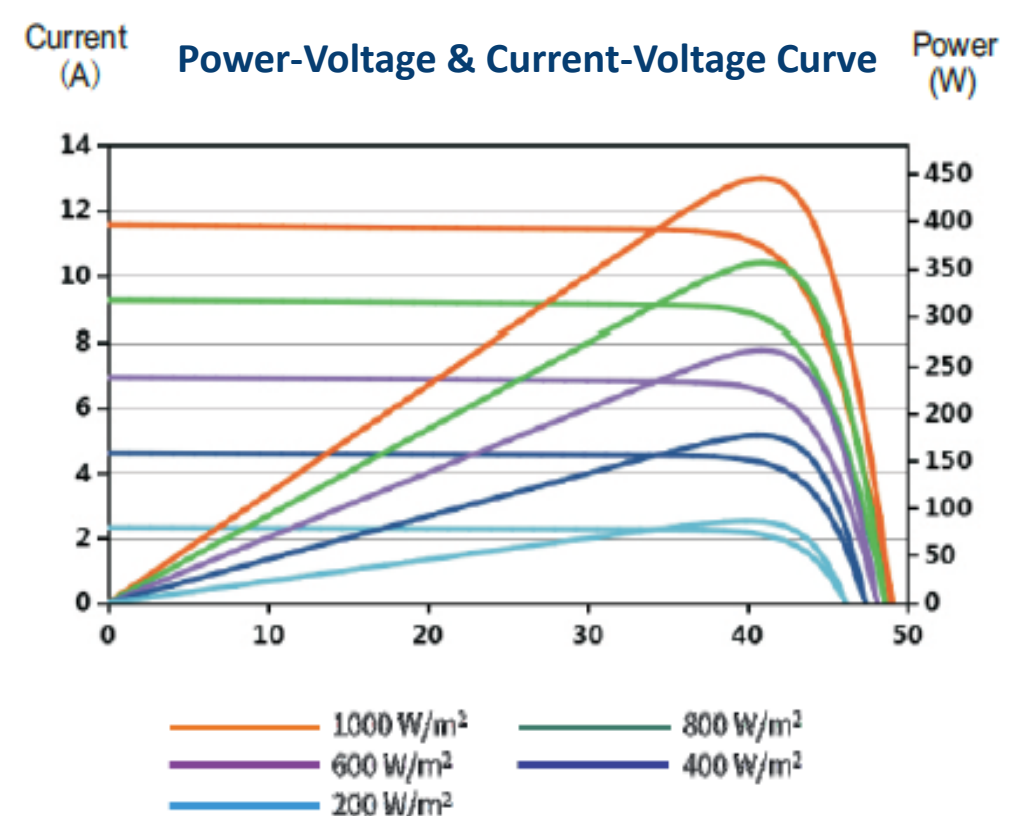
**PACKAGING**

31pcs/pallet 682pcs/ 40'HQ

**DRAWINGS & DIMENSIONS**



**I-V CURVE CHARACTERISTICS**



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Engineered in GERMANY