

DCH - X1/72

MONOCRYSTALLINE PERC
HALF-CELL MODULE

DCH-X1/72-545(R)

144 CELL

Mono PERC HC Module 9BB

545 Wp

Power Output Range

21.09%

Efficiency

0 /+5 W

Positive Power Tolerance

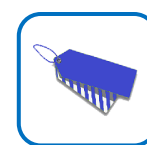
Key Features



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 resistant and free of snails 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



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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Engineered in GERMANY



ELECTRICAL DATA (STC)

Model Number	DCH-X1/72-545(R)
Nominal Power	545 Wp
Voltage at max. power Vmpp	41.83 V
Current at max. power Impp	13.03 A
Open circuit voltage Voc	50.54 V
Short circuit current Isc	13.73 A
Efficiency	21.09 %

Data applies to Standard Test Conditions (STC): Irradiance 1000W/m² with an AM of 1.5 and a cell temperature of 25°C

ELECTRICAL DATA (NMOT)

Model Number	DCH-X1/72-545(R)
Nominal Power	408.72 Wp
Voltage at max. power Vmpp	39.00 V
Current at max. power Impp	10.48 A
Open circuit voltage Voc	47.90 V
Short circuit current Isc	11.13 A

NMOT: Irradiance 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

Cell Type	P TYPE/M10/PERC/Bifacial/10BB/Half Cell 182×91mm
Number of Cells	144 Cells (6*12*2) pcs
Dimension	2279 mm x 1134 mm x 35 mm
Weight	29.2 ±1kg
Glass	AR coating tempered glass
Frame	35 mm, silver anodized Al alloy
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	-0.350 %/°C
Temperature Coefficient Voc%/°C	-0.284 %/°C
Temperature Coefficient Isc%/°C	0.050 %/°C
Maximum System Voltage	1500 VDC
Operating temperature range	-40 ~ +85°C
Maximum series fuse rating	25 A

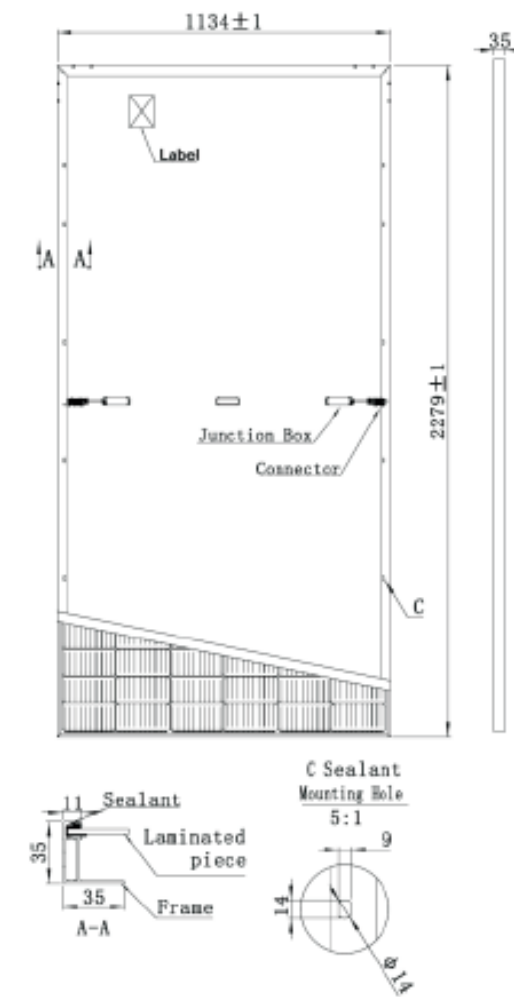
WARRANTY

12 years Product Warranty
25 years Performance Warranty

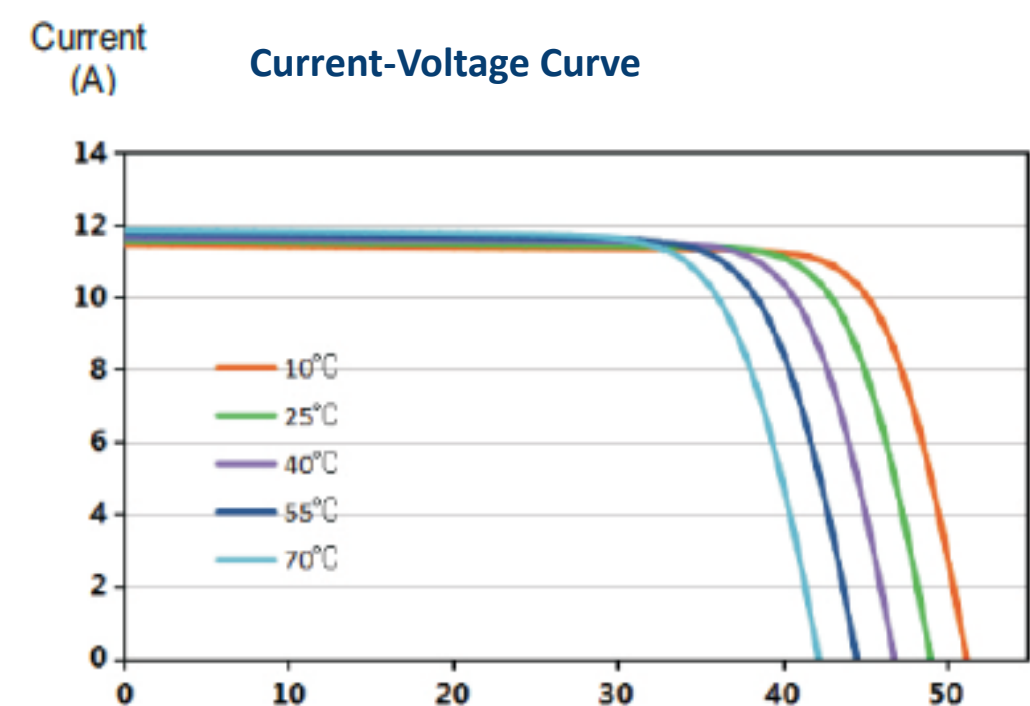
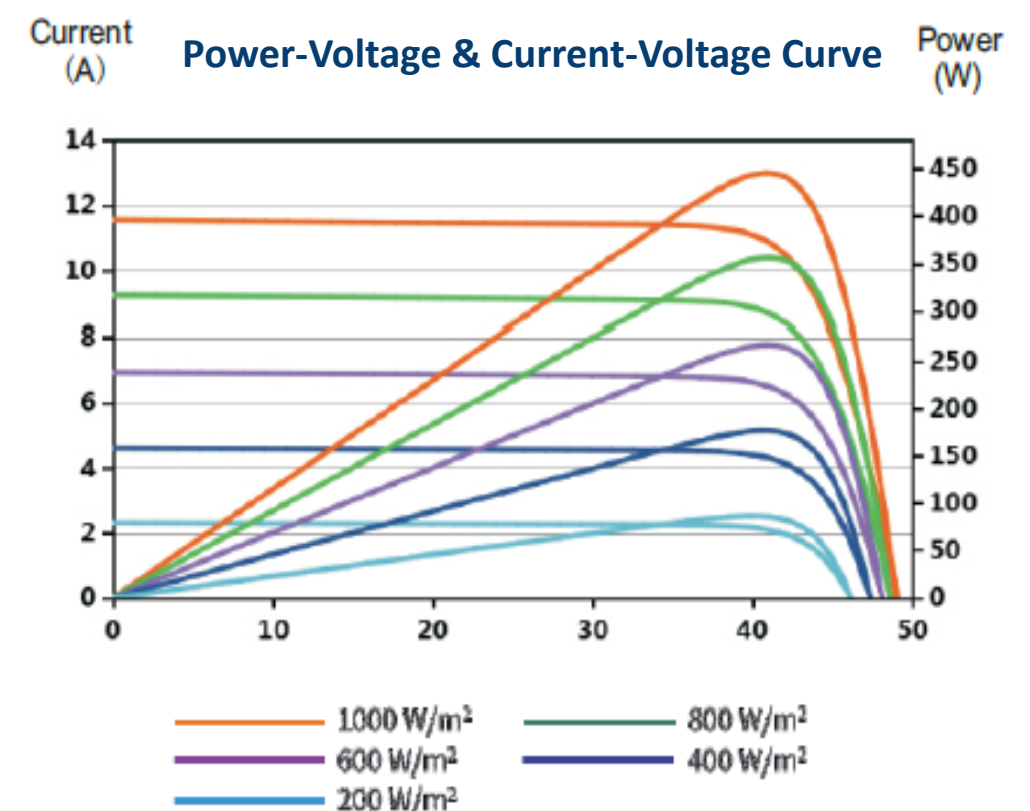
PACKAGING

31pcs/pallet	620pcs/ 40'HQ
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DRAWINGS & DIMENSIONS



I-V CURVE CHARACTERISTICS



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