

# DCH - X1/54

MONOCRYSTALLINE PERC HC Black  
High Performance Module



## DCH-X1/54-400W(R)

**108 CELL**

Mono PERC HC Module

**400 Wp**

Power Output Range

**20.40%**

Efficiency

**0 /+5 W**

Positive Power Tole-

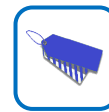
### Key Features



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 & 25 years performance 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, IEC62804, 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.

In der Wehbach 17, 57080 Siegen, Germany

Tel: +49 271 3878100

Fax: +49 271 38781022

E-mail: info@dch-group.de

Website: www.dch-group.de



## ELECTRICAL DATA (STC)

Model Number	DCH-X1/54-400W(R)
Maximum Power ( Pmax/W)	400 Wp
Maximum Power Voltage (Vmp/V)	30.92 V
Maximum Power Current (Imp/A)	12.94 A
Open Circuit Voltage (Voc/V)	37.29 V
Short Circuit Current (Isc/A)	13.66 A
Module Efficiency (%)	20.48 %

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-X1/54-400W(R)
Maximum Power ( Pmax/W)	300.01 Wp
Maximum Power Voltage (Vmp/V)	28.82 V
Maximum Power Current (Imp/A)	10.41 A
Open Circuit Voltage (Voc/V)	35.34 V
Short Circuit Current (Isc/A)	11.08 A

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

## MECHANICAL DATA

Cells Type	Mono PERC, Half 182×91mm
Number Of Cells	108 Cells (6*9*2) pcs
Dimensions (tolerance +/- 1 mm)	1722 mm x 1134 mm x 30 mm (Black)
Weight	20.7±1kg
Glass	AR coating tempered glass
Frame	Al 6063-T5/6005-T6(Black)
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~+3%
Temperature Coefficient Pm%/°C	-0.340 %/°C
Temperature Coefficient Voc%/°C	-0.258 %/°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

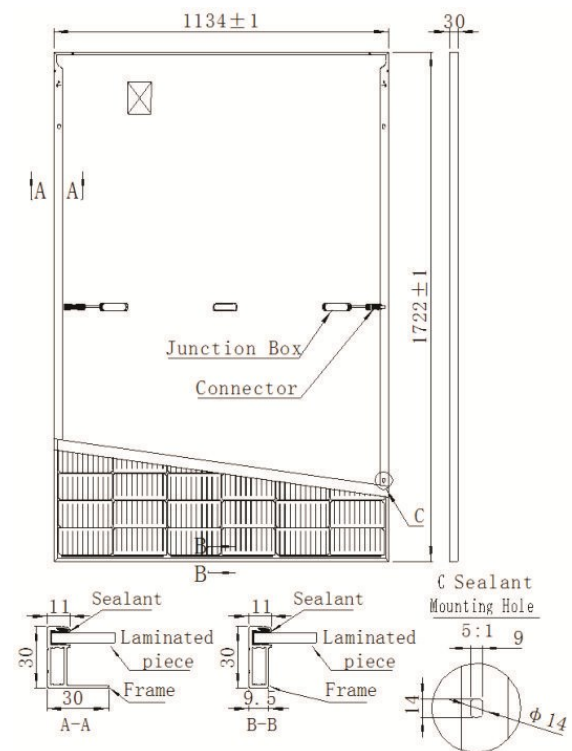
## WARRANTY

12 years Product Warranty
25 years Performance Warranty

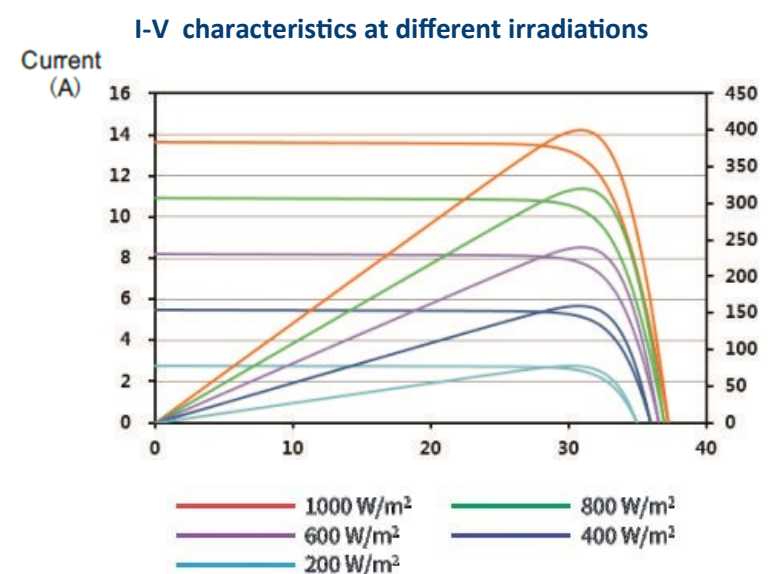
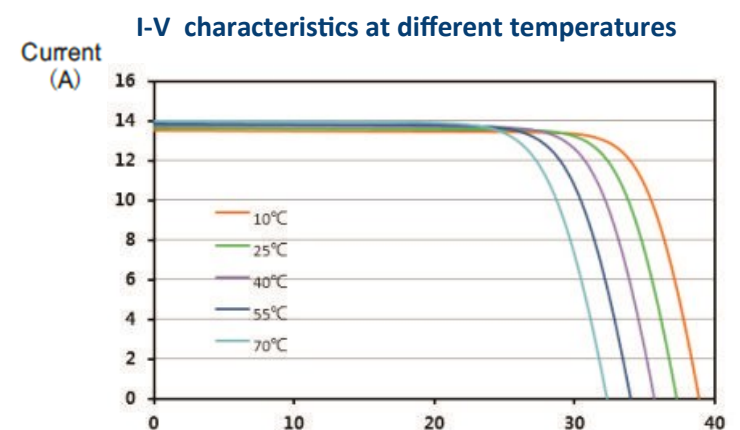
## PACKAGING

Modules per 40' container:	936 pcs
Number of modules per pallet:	36
Number of pallets per container:	26

## DRAWINGS & DIMENSIONS



## I-V CURVE CHARACTERISTICS



Please read safety and installation instructions before using the product

© 2020 DCH Energy All rights reserved. Specifications included in this datasheet are subject to change without notice.

In der Wehbach 17, 57080 Siegen, Germany

Tel: +49 271 3878100

E-mail: [info@dch-group.de](mailto:info@dch-group.de)

Fax: +49 271 38781022

Website: [www.dch-group.de](http://www.dch-group.de)