



DE-120HC Series



Framed 120 Layout Mono Black Module
PERC Half-Cell: 330-350W



120 HALF CELL
MONO BLACK MODULE

330-350W
POWER OUTPUT RANGE

20.6%
MAXIMUM EFFICIENCY

0~+5W
POSITIVE POWER TOLERANCE

Is one of the world's top ranking manufacturer and installer of solar modules for more than 10years. Facing the increasingly serious situation of world Global warming, we are undertaking more duty and responsibility to provide more reliable and sustainable energy to protect not only human beings but also the Mother Earth. And with modules and systems delivered to more than 150 countries, Is committed to building long term strategy and mutual collaboration with all installers, distributors and partners in energy protection.

Comprehensive Products and System Certificates

IEC61215/IEC61730/IEC61701/IEC62716
 ISO 9001: Quality Management System
 ISO 14001: Environmental Management System
 ISO 14064: Greenhouse Gas Emissions Verification
 OHSAS 18001: Occupation Health and Safety Management System



PRODUCTS

DE-120HC(cells)

POWER RANGE

330-350W



High reliability

- LID is less than 1%, 1st year degradation less than 2.5%
- Resistant to salt, acid, ammonia, sand, acid and alkaline
- Proven to be reliable in high temperature and humidity areas
- Certificated to fire class A
- Minimizes micro-crack and snail trails



High energy generation

- Up to 30% additional power gain from back side depending on the albedo
- Excellent IAM and low light performance validated by 3rd party with cell process and module material optimization
- Lower temp coefficient (-0.35%) and NMOT bring more energy leading to lower LCOE
- Better anti-shading performance and lower operating temperature



High quality

- Ensured PID resistance through cell process and module material control
- 2400 Pa negative load
- 5400 Pa positive load
- * 2400/5400 is the measured load, and the safety factor is 1.5 times

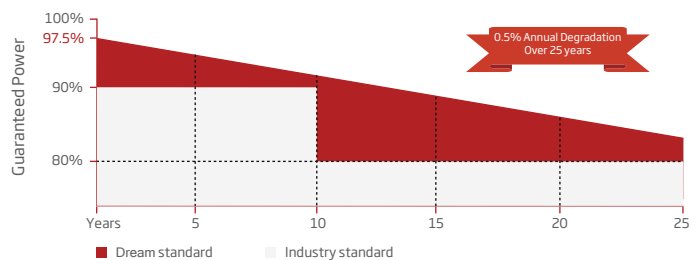


Easy to install

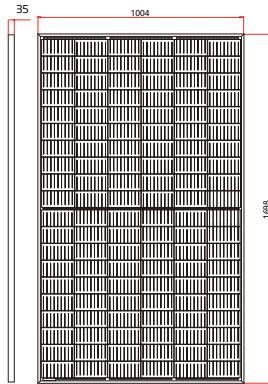
- Frame design makes module compatible with all racking and installation methods
- Easy to handle and install as normal framed module during transportation

PERFORMANCE WARRANTY

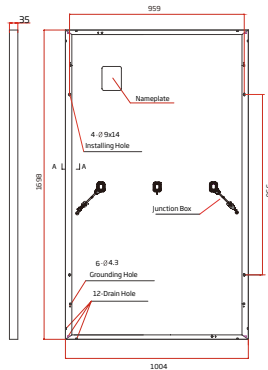
12 Year Product Warranty · 25 Year Power Warranty



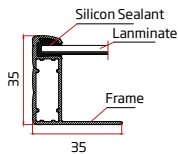
DIMENSIONS OF PV MODULE(mm)



Front View

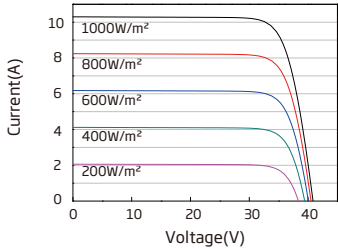


Back View (Portrait)

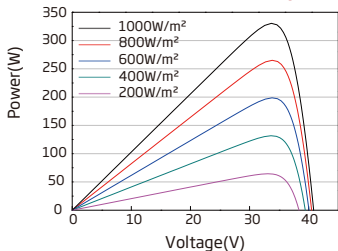


A-A

I-V CURVES OF PV MODULE(330W)



P-V CURVES OF PV MODULE(330W)



ELECTRICAL DATA(STC)

Peak Power Watts-P _{MAX} (Wp)*	330	335	340	345	350
Power Output Tolerance-P _{MAX} (W)	0~+5				
Maximum Power Voltage-V _{MPP} (V)	34.3	34.6	34.9	35.2	35.5
Maximum Power Current-I _{MPP} (A)	9.63	9.69	9.75	9.81	9.87
Open Circuit Voltage-V _{OC} (V)	42.2	42.6	43.0	43.4	43.6
Short Circuit Current-I _{SC} (A)	10.14	10.20	10.26	10.31	10.37
Module Efficiency (%)	19.4	19.7	20.0	20.3	20.6

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5

*Measuring tolerance: ±3%.

ELECTRICAL PARAMETERS AT NMOT

Maximum Power-P _{MAX} (Wp)	249	253	257	261	265
Maximum Power Voltage-V _{MPP} (V)	32.4	32.7	33.0	33.3	33.6
Maximum Power Current-I _{MPP} (A)	7.69	7.74	7.79	7.84	7.89
Open Circuit Voltage-V _{OC} (V)	39.7	40.1	40.4	40.7	41.0
Short Circuit Current-I _{SC} (A)	8.18	8.22	8.26	8.30	8.34

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

MECHANICAL DATA

Solar Cells	Monocrystalline, PERC, 9BB
Cell Orientation	120cells (6*20)
Module Dimensions	1698*1004*35mm
Weight	19kg (Approx)
Glass	3.2mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA/POE
Backsheet	Black
Frame	35mm Black Anodized Aluminium Alloy
J-Box	IP 67 rated or IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² Portrait: N 300mm / P 300mm Landscape: N 1000mm / P 1000mm (Opt)
Connector	MC4 Compatible /MC4 EVO2/TS4*

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NMOT (Nominal Module Operating Temperature)	41 C ± 3
Temperature Coefficient of P _{MAX}	-0.37%/ C
Temperature Coefficient of V _{OC}	-0.29%/ C
Temperature Coefficient of I _{SC}	0.05%/ C

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

MAXIMUM RATINGS

Operational Temperature	-40~+85 C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	20A

WARRANTY

10 year Product Workmanship Warranty
25 year Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per pallet: 30 pieces
Modules per 40HQ container: 870 pieces