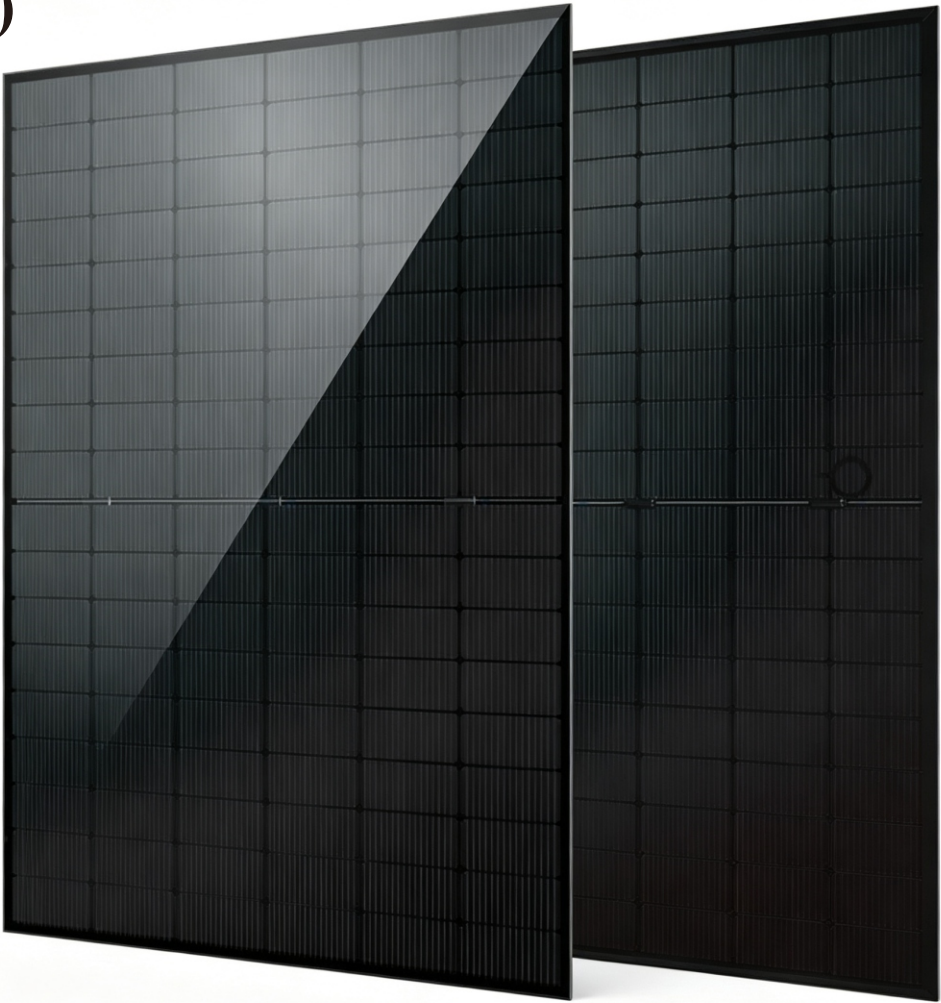




Silver Black
DH-RC54HD(BK)

Product Range
490-510W
N-Type Rectangle Bifacial
Double Glass

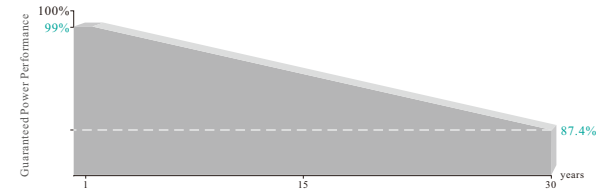


510W
Maximum Power Output

0~+5W
Positive Power Tolerance

22.83%
Maximum Efficiency

 **Linear Performance Warranty**
10 Year Product Warranty
30 Year Linear Power Warranty
<1% First year Power Degradation
<0.4% Year 2-30 Power Degradation



 **Certifications**
Quality Management System and Product Certification.
IEC61215(2021), IEC61730(2023), IEC61701
IEC61215-2(bifacial): 2021
ISO9001:2015: Quality Management System
ISO14001:2015: Environment Management System
ISO45001:2018: Occupational health and safety management systems



 **MBB Half-Cut Rectangle Solar Cell**
182x105mm, 108 cells.

 **Higher Module Conversion Efficiency**
Higher module output up to 510W with module efficiency up to 22.83%.

 **Low-Light Performance**
Advanced glass and surface texturing allow for excellent performance in low-light environments.

 **Transparent Dual-glass Design**
Excellent fire rating, with better temperature co-efficiency.

 **Higher Power Output**
Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.

Double Glass, 54-CELL HALF-CUT SERIES

ELECTRICAL PARAMETERS AT STC					
Module Type: DH-RC54HD(BK)	490M	495M	500M	505M	510M
Maximum Power(Wp)	490W	495W	500W	505W	510W
Open Circuit Voltage(Voc)	39.00V	39.20V	39.40V	39.60V	39.80V
Short Circuit Current(Isc)	15.95A	16.00A	16.05A	16.10A	16.15A
Maximum Power Voltage(Vm)	32.20V	32.40V	32.60V	32.80V	33.00V
Maximum Power Current(Im)	15.22A	15.28A	15.34A	15.40A	15.46A
Module Efficiency	21.93%	22.16%	22.38%	22.61%	22.83%
Maximum Series Fuse	30A				
Watts Positive Tolerance	0~+5W				
Number Of Diode	3				
Standard Test Conditions	1000W/M²,25℃, AM1.5				
Maximum System Voltage	1500V/DC				
Temperature-Coefficient Isc	+0.035%/℃				
Temperature-Coefficient Voc	-0.262%/℃				
Temperature-Coefficient Pmpp	-0.359%/℃				
Operating Temperature	-40℃...+85℃				
Normal Operating Cell Temperature	45±2℃				
Load Capacity For The Cover OfThe Module (Glass)	5400Pa(IEC61215)(snow)				
Load Capacity For The Front & Back OfThe Module	2400Pa(IEC61215)(wind)				

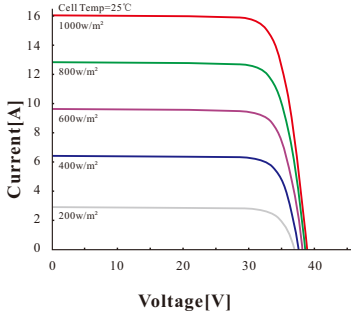
BNPI (1000w/m² + 135w/m²)					
Module Type: DH-RC54HD(BK)	490M	495M	500M	505M	510M
Maximum Power(Wp)	539W	545W	550W	556W	561W
Open Circuit Voltage(Voc)	39.02V	39.24V	39.43V	39.61V	39.82V
Short Circuit Current(Isc)	17.55A	17.60A	17.66A	17.71A	17.77A
Maximum Power Voltage(Vm)	32.22V	32.41V	32.61V	32.81V	33.00V
Maximum Power Current(Im)	16.73A	16.82A	16.87A	16.95A	17.00A

BSI (1000w/m² + 300w/m²)					
Module Type: DH-RC54HD(BK)	490M	495M	500M	505M	510M
Maximum Power(Wp)	603W	609W	615W	621W	627W
Open Circuit Voltage(Voc)	39.00V	39.20V	39.40V	39.60V	39.80V
Short Circuit Current(Isc)	19.61A	19.68A	19.74A	19.80A	19.86A
Maximum Power Voltage(Vm)	32.22V	32.42V	32.61V	32.81V	33.00V
Maximum Power Current(Im)	18.72A	18.79A	18.86A	18.93A	19.00A

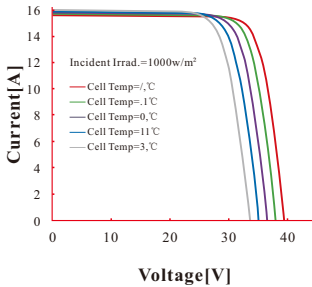
MECHANICAL CHARACTERISTICS	
Front Glass	2.0mm high transmittance, AR semi-tempered glass
Rear Glass	2.0mm semi-tempered glass
Cell (Quantity / Material / Dimensions)	108(6x18) / monocrystalline silicon,bifacial
Frame (Material / Color)	aluminum hollow-chamber frame on each side anodized aluminum alloy / black
Junction Box (Protection Degree)	≥IP68
Cables & Plug Connectors	4mm², 300mm in length,length can be customized
Module Dimensions (L / W / H)	1960(±2)x1134(±2)x30mm
Module Weight	26.6kg
Application Class	Class A
Electrical Protection Class	Class II
Fire Safety Class	Class A

PACKING				
Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	36 (30mm)	987.6	1990x1120x1260	864

CURRENT-VOLTAGE CURVES:



Module characteristics at constant module temperatures of 25℃ and variable levels of irradiance



Module characteristics at variable module temperatures and constant module irradiance of 1000 W/m²

MODULE DIAGRAM:

