

Mono

RS-120HC Series

Framed 120 Layout Mono Black Module

PERC Half-Cell: 340-370W



120 HALF CELL
MONO BLACK MODULE

340-370W
POWER OUTPUT RANGE

20.2%
MAXIMUM EFFICIENCY

0~+5W
POSITIVE POWER TOLERANCE

PRODUCTS

RS-120HC(cells)

POWER RANGE

340-370W



Higher power for large scale installations

- High performance mono PERC cells
- Reduced BOS costs with higher power bins and 1,500V system voltage
- Consistently high bankability ratings by BNEF, banks and investors



Half-cut cell design brings higher efficiency

- Optimized power output under inter-row shading conditions
- Integrated LRF for increased performance
- Low thermal coefficients for higher energy yield at elevated operating temperatures
- Reduced interconnection losses



Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- PID resistant
- 2x 100% inline EL inspection



Certified to withstand challenging environmental conditions

- Salt Mist Corrosion
- Ammonia Corrosion
- Blowing Sand

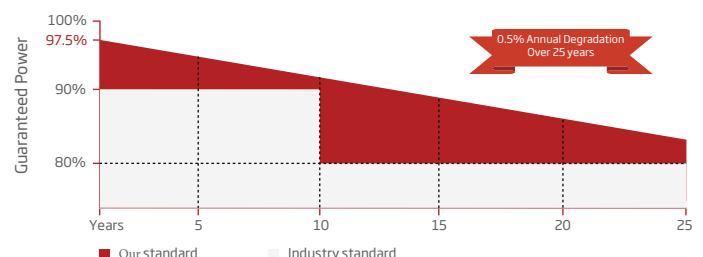
Comprehensive Products and System Certificates

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

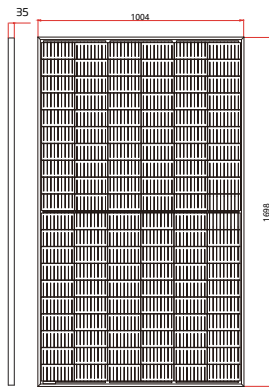


PERFORMANCE WARRANTY

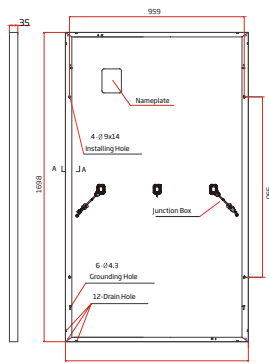
10 Year Product Warranty · 25 Year Power Warranty



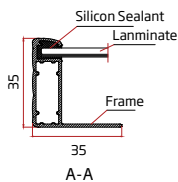
DIMENSIONS OF PV MODULE(mm)



Front View

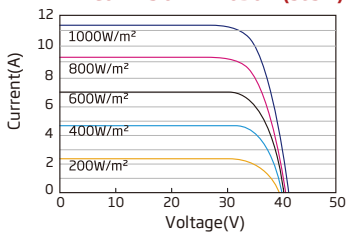


Back View (Portrait)

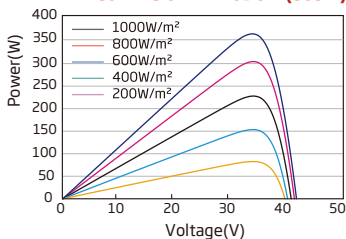


A-A

I-V CURVES OF PV MODULE(365W)



P-V CURVES OF PV MODULE(365W)



ELECTRICAL DATA(STC)

Peak Power Watts- $P_{MAX}(Wp)^*$	340	345	350	355	360	365	370
Power Output Tolerance- $P_{MAX}(W)$	0~+5						
Maximum Power Voltage- $V_{MPP}(V)$	32.5	32.8	33.1	33.4	33.7	33.9	34.2
Maximum Power Current- $I_{MPP}(A)$	10.42	10.49	10.56	10.63	10.70	10.77	10.83
Open Circuit Voltage- $V_{oc}(V)$	39.5	39.8	40.1	40.4	40.7	41.0	41.3
Short Circuit Current- $I_{sc}(A)$	10.95	11.02	11.09	11.16	11.24	11.30	11.37
Module Efficiency (%)	18.8	19.0	19.2	19.4	19.6	19.9	20.2

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5
*Measuring tolerance: ±3%.

ELECTRICAL PARAMETERS AT NMOT

Maximum Power- $P_{MAX}(Wp)$	256	260	264	268	272	276	280
Maximum Power Voltage- $V_{MPP}(V)$	30.7	31.0	31.3	31.5	31.8	32.0	32.3
Maximum Power Current- $I_{MPP}(A)$	8.34	8.39	8.45	8.51	8.57	8.63	8.68
Open Circuit Voltage- $V_{oc}(V)$	37.2	37.5	37.8	38.1	38.4	38.7	39.0
Short Circuit Current- $I_{sc}(A)$	8.83	8.88	8.93	8.99	9.05	9.10	9.15

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

MECHANICAL DATA

Solar Cells	Monocrystalline, PERC
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}	-0.36%/ C
Temperature Coefficient of V_{oc}	-0.26%/ C
Temperature Coefficient of I_{sc}	0.04%/ 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)