

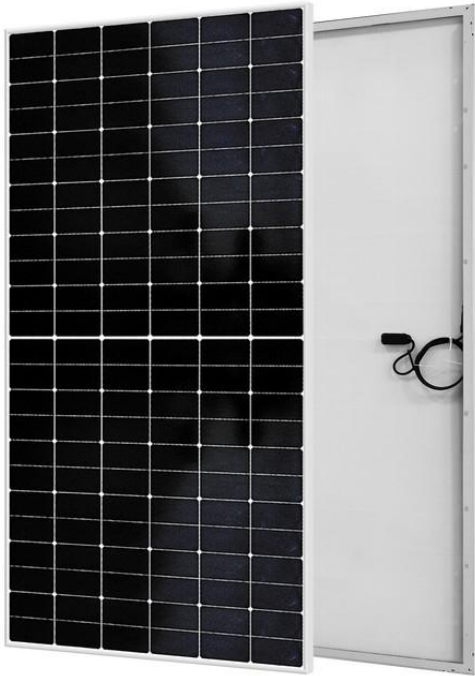
Mono IBC 182mm 144 Cells

MS(555-600)BC-72H Silver Frame

555/560/565/570/575/580/
585/590/595/600 WP



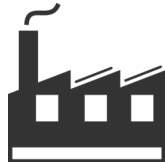
MAYSUNSOLAR.COM



APPLICATIONS >>



On-grid residential
roof-tops

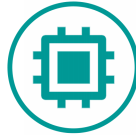


On-grid commercial/
industrial roof-tops



Advanced Solar Technology

IBC



The most advanced technology

The most advanced technology for mass-produced photovoltaic modules, cell technology is far advanced than PERC and Topcon technology.



Higher conversion efficiency

The short circuit current density of IBC cells is 5-8% higher than that of ordinary cells. No bus bars on the front to reduce optical loss and maximize battery efficiency and power generation.



Low temperature coefficient

IBC solar panels feature a low temperature coefficient, which allows for better performance in hot climates.



Better appearance

There is no bus bars on the front, tight cell layout, overall unity, making a beautiful and elegant appearance.



More application scenarios

IBC PV modules have a wider application scenario and are especially suitable for building applied PV.



Higher reliability

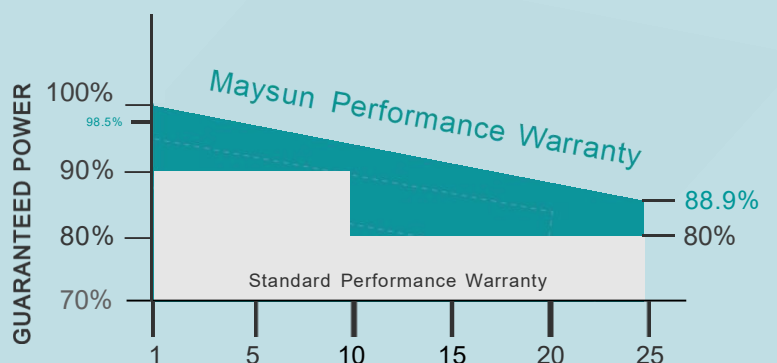
Compared to PV modules made by front welding, the reliability and stability of IBC modules are greatly increased due to the lack of solder joints.

MAXIMUM EFFICIENCY

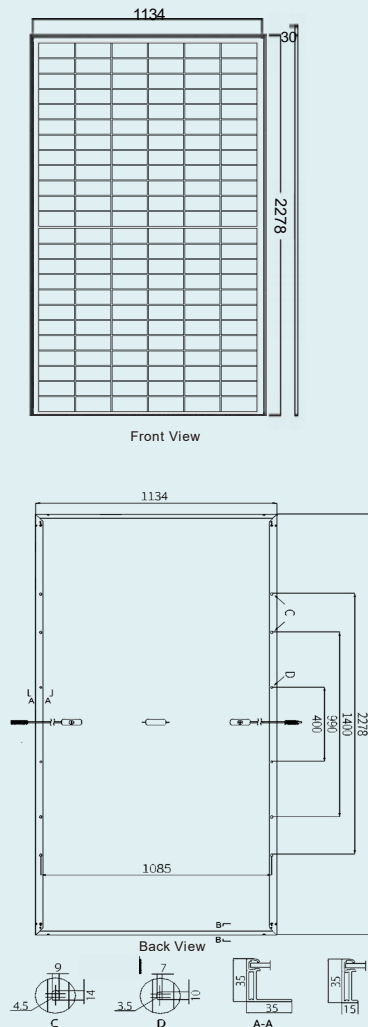
23.2%

POSITIVE POWER
TOLERANCE

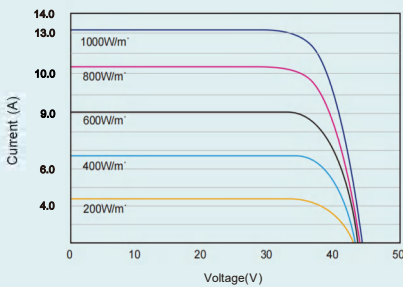
0 ~ +5W



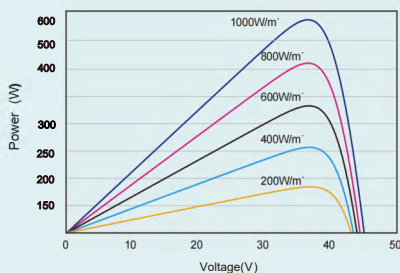
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(570W)



P-V CURVES OF PV MODULE(570W)



ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (Wp)*	555	560	565	570	575	580	585	590	595	600
Power Tolerance- P_{MAX} (W)	0~+5									
Maximum Power Voltage- V_{MPP} (V)	43.31	43.56	43.61	43.86	43.91	44.06	44.21	44.36	44.51	44.66
Maximum Power Current- I_{MPP} (A)	12.85	12.92	12.98	13.05	13.11	13.18	13.24	13.31	13.37	13.44
Open Circuit Voltage- V_{OC} (V)	51.56	51.61	51.86	51.91	52.06	52.21	52.36	52.51	52.66	52.81
Short Circuit Current- I_{sc} (A)	13.91	13.97	14.03	14.09	14.15	14.21	14.27	14.33	14.40	14.46
Module Efficiency η_m (%)	21.4	21.6	21.8	22.0	22.2	22.4	22.6	22.8	23.0	23.2

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

ELECTRICAL DATA (NOCT)

Maximum Power- P_{MAX} (Wp)	413	420	421	427	429	434	437	441	445	448
Maximum Power Voltage- V_{MPP} (V)	39.50	39.67	39.78	39.94	40.06	40.21	40.34	40.48	40.62	40.75
Maximum Power Current- I_{MPP} (A)	10.45	10.60	10.58	10.70	10.71	10.80	10.84	10.90	10.97	11.00
Open Circuit Voltage- V_{OC} (V)	48.32	48.46	48.60	48.74	48.88	49.02	49.16	49.30	49.44	49.58
Short Circuit Current- I_{sc} (A)	11.25	11.27	11.32	11.37	11.42	11.47	11.52	11.57	11.63	11.68

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

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	144 cells
Module Dimensions	2278 x 1134 x 35 mm
Weight	27.5 kg
Glass	3.2 mm High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	White
Frame	35 mm Silver, anodized aluminium alloy
J-Box	IP 68 rated (3 bypass diodes)
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²) Portrait: N 1200mm/P 1200mm (47.24/47.24 inches) Length can be customized
Connector	MC4 Compatible

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	45°C (±2°C)
Temperature Coe°cient of P_{MAX}	- 0.29%/°C
Temperature Coe°cient of V_{OC}	- 0.23%/°C
Temperature Coe°cient of I_{sc}	0.05%/°C

MAXIMUM RATINGS

Operational Temperature	- 40 ~ +85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	25A
Mechanical Performance	P 5400 Pa/N 2400 Pa
Hail Test Conditions	Diameter 25 mm Impact Speed 23 m/s

WARRANTY

25 year Product Workmanship Warranty
25 year Power Warranty
1.5% first year degradation
0.4% Annual Power Attenuation

*Please refer to product warranty for details.

PACKAGING CONFIGURATION

Modules per pallet: 31 pieces
Modules per 40' container: 620 pieces



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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Website: www.maysunsolar.com