

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



## Advanced Solar Technology

# IBC



### Better appearance

Without the visual impact of the welding strips on the front-side, the pure beauty of the solar cells is perfectly presented.



### High power generation efficiency

There is no metal welding strips on the front-side of the module. The power generation area of the front-side increases by 2.5%.



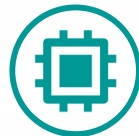
### No light pollution

The light reflectivity of the module is only 1.7% due to no welding strip technology on the front-side. It reduces light pollution to the environment and neighbors.



### No hot spot effect when be blocked

Using unique all back contact technology, the the positive and negative metal electrodes flow normally on the back-side when be blocked, reducing the risk of hot spots.



### Long warranty of 25 years

The encapsulating materials use TPE backsheets, which is covered with PVF (Tedlar) film and use improved EPE film, ensuring service life of 25 years.



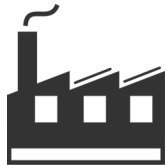
### Better performance in low light scenes

No shield of metal electrodes on the front-side enables a spectral absorption range of 300nm-1200nm, which extends the working time. The maximum power generation gain is 2.01%.

## APPLICATIONS >>



On-grid residential  
roof-tops



On-grid commercial/  
industrial roof-tops

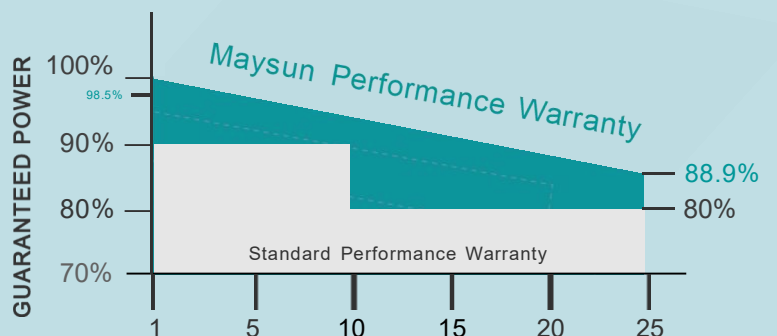


MAXIMUM EFFICIENCY

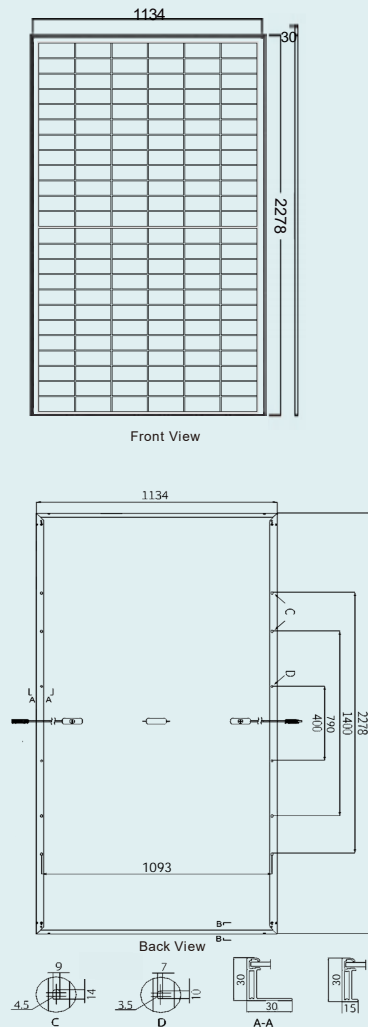
# 23.2%

POSITIVE POWER  
TOLERANCE

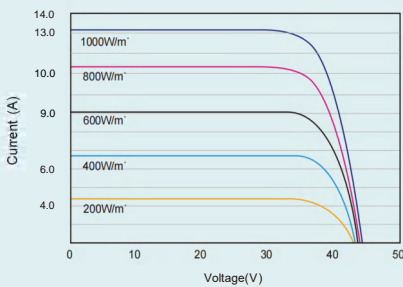
# 0 ~ +5W



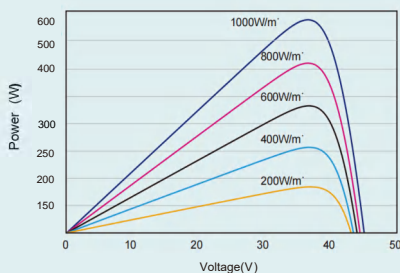
### DIMENSIONS OF PV MODULE(mm)



### 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	12.9	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 $\eta_m$ (%)	21.5	21.7	21.9	22.1	22.3	22.5	22.6	22.8	23.0	23.2

STC: Irradiance 1000W/m<sup>2</sup>, 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/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

### MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	144 cells
Module Dimensions	2278 x 1134 x 30 mm
Weight	27.2 kg
Glass	3.2 mm High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	White
Frame	30 mm Silver, anodized aluminium alloy
J-Box	IP 68 rated (3 bypass diodes)
Cables	Photovoltaic Technology Cable 4.0mm <sup>2</sup> (0.006 inches <sup>2</sup> ) 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 Coefficient of $P_{MAX}$	- 0.29%/°C
Temperature Coefficient of $V_{OC}$	- 0.23%/°C
Temperature Coefficient 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: 36 pieces
Modules per 40' container: 720 pieces



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.  
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