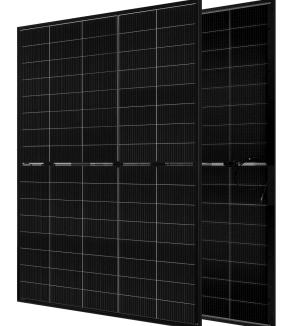
MS(410-430)JT-40H Full Black Bifacial GT

410/415/420/425/430 WP



Advanced Solar Technology

HJT -Full Black





High bifacial rate

The HJT cell uses a symmetrical front and back structure, showing an ultra-high bifacial rate. The maximum power generation utilization rate on the back can reach 95%.



No PID and LID effects

HJT N-type silicon is doped with phosphorus, and the surface is TCO film, which abandons the insulating layer. Therefore, the HJT cell completely eliminates PID and LID effects.



Low temperature coefficient

The power temperature coefficient of HJT PV modules is only -0.24%/°C. HJT modules operating in hot environments can bring more power generation gains.

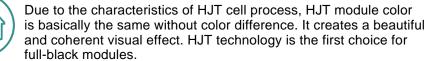






On-grid commercial/ industrial roof-tops

Consistent color





High profitability

With cutting-edge technology and excellent performance, within the product life cycle, the return on investment of HJT modules is 18% higher than that of PERC modules and 12% higher than that of Topcon modules.











High flexibility

Because of the excellent cell flexibility of HJT modules, the risk of module cracks during transportation and installation is reduced. The reliability of the power station is improved.

MAXIMUM EFFICIENCY

22.3%

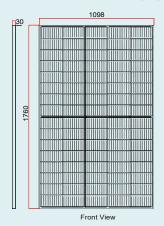
POSITIVE POWER TOLERANCE

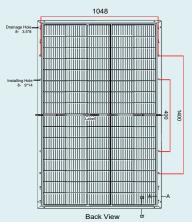


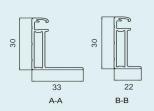
Maysun Solar

MS(410-430)JT-40H Full Black Bifacial GT

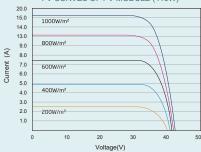
DIMENSIONS OF PV MODULE (mm)

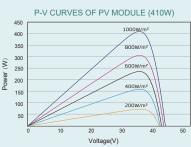






I-V CURVES OF PV MODULE (410W)





ELECTRICAL DATA (STC)

| Peak Power Watts-P _{MAX} (Wp)* | 410 | 415 | 420 | 425 | 430 |
|--|-------|-------|--------|-------|-------|
| Power Tolerance-P _{MAX} (W) | | | 0 ~ +5 | | |
| Maximum Power Voltage-V _{MPP} (V) | 25.02 | 25.08 | 25.14 | 25.20 | 25.26 |
| Maximum Power Current-I _{MPP} (A) | 16.38 | 16.54 | 16.71 | 16.86 | 17.02 |
| Open Circuit Voltage-Voc (V) | 29.72 | 29.79 | 29.86 | 29.93 | 30.0 |
| Short Circuit Current-Isc (A) | 17.29 | 17.46 | 17.63 | 17.75 | 17.92 |
| Module Efficiency η m (%) | 21.2 | 21.5 | 21.7 | 22.0 | 22.3 |

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

Electrical characteristics with different rear side power gain

| 5% Maximum Power-P _{MAX} (Wp) | 430.5 | 435.75 | 441 | 446.25 | 451.5 |
|---|-------|--------|-------|--------|-------|
| 5% Module Efficiency η m (%) | 22.26 | 22.58 | 22.79 | 23.1 | 23.42 |
| 15% Maximum Power-P _{MAX} (Wp) | 471.5 | 477.25 | 483 | 488.75 | 494.5 |
| 15% Module Efficiency η m (%) | 24.38 | 24.73 | 24.96 | 25.3 | 25.65 |
| 25% Maximum Power-P _{MAX} (Wp) | 512.5 | 518.75 | 525 | 531.25 | 537.5 |
| 25% Module Efficiency η m (%) | 26.5 | 26.88 | 27.13 | 27.5 | 27.88 |

Power Bifaciality: 90±5%.

ELECTRICAL DATA (NOCT)

| Maximum Power-P _{MAX} (Wp) | 317 | 321 | 325 | 329 | 333 |
|--|-------|-------|-------|-------|-------|
| Maximum Power Voltage-V _{MPP} (V) | 23.67 | 23.87 | 24.09 | 24.28 | 24.5 |
| Maximum Power Current-I _{MPP} (A) | 13.39 | 13.45 | 13.49 | 13.55 | 13.59 |
| Open Circuit Voltage-Voc (V) | 28.54 | 28.81 | 29.05 | 29.31 | 29.56 |
| Short Circuit Current-Isc (A) | 14.05 | 14.1 | 14.15 | 14.2 | 14.25 |

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

MECHANICAL DATA

| Solar Cells | Monocrystalline, HJT |
|----------------------|--|
| Cell Orientation | 80 cells (5 x 16) |
| Module Dimensions | 1760 mm × 1098 mm × 30 mm |
| Weight | 22 kg |
| Front Glass | 2.0 mm, High Transmission, AR Coated Heat Strengthened Glass |
| Encapsulant Material | POE |
| Back Glass | 1.6 mm, High Transmission, Heat Strengthened Glass |
| Frame | 30 mm Black, anodized aluminium alloy |
| J-Box | IP 68 rated (3 bypass diodes) |
| Cables | Photovoltaic Technology Cable 4.0 mm² |
| | Portrait: N 1000 mm/P 1000 mm |
| | Length can be customized |
| Connector | MC4 Compatible |

^{*} Please refer to regional datasheet for specific connector

TEMPERATURE RATINGS

| NOCT(Nominal Operating Cell Temperature) | 43°C (±3°C) |
|--|-------------|
| Temperature Coefficient of PMAX | -0.24%/°C |
| Temperature Coefficient of Voc | -0.22%/°C |
| Temperature Coefficient of Isc | 0.047%/°C |

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

| WARRANTY |
|--------------------------------|
| 30 Years Product Warranty |
| 30 Years Power Warranty |
| 1% First Year Degradation |
| 0.35% Annual Power Degradation |
| |

(Please refer to product warranty for details)

APPLICATION ENVIRONMENT

| Operational Temperature | -40 ~ +85°C |
|-------------------------|---------------------|
| Maximum System Voltage | 1500VDC |
| Max Series Fuse Rating | (IEC) 35A |
| Mechanical Performance | P 5400 Pa/N 2400 Pa |

PACKAGING CONFIGURATION

Modules per Pallet: 36 pieces Modules per 40' Container: 936 pieces

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

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Specifications included in this datasheet are subject to change without notice.

Website: www.maysunsolar.com

