MS(390-410)MDG-40H **Black Frame Bifacial**

390/395/400/405/410 WP





APPLICATIONS >>





On-grid residential roof-tops

On-grid commercial/ industrial roof-tops









Lightweight Double-Glass Tailored for European Distribution

TwiSun



30-year Lifespan

Wide range of applications for severe weather with a service life of over 30 years.



Lightweight

Ultra-thin dual-glass design, tailored for European distribution and easy installation.



Reliability

Upgraded T6 aluminium frame for 20% more mechanical load strength.



Adaptability

1/3-cut low-current cell technology adaptable to mainstream European inverters.



Safety

Higher fire safety, more suitable for high density residential areas.



High Power

Bifacial power generation with 5%-25% increase in output for different conditions.

MAXIMUM EFFICIENCY

21.2%

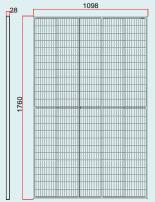
POSITIVE POWER **TOLERANCE**



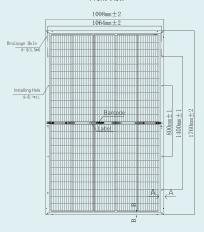
Maysun Solar

MS(390-410)MDG-40H Bifacial

DIMENSIONS OF PV MODULE(mm)

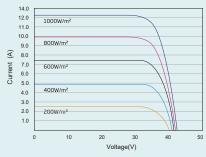


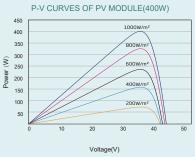
Front View



С-С

I-V CURVES OF PV MODULE(400W)





ELECTRICAL DATA (STC)

Peak Power Watts-P _{MAX} (Wp)*	390	395	400	405	410
Power Tolerance-P _{MAX} (W)			0 ~ +5		
Maximum Power Voltage-V _{MPP} (V)	33.8	34.0	34.2	34.4	34.6
Maximum Power Current-I _{MPP} (A)	11.54	11.62	11.70	11.77	11.84
Open Circuit Voltage-Voc (V)	40.8	41.0	41.2	41.4	41.6
Short Circuit Current-Isc (A)	12.14	12.21	12.28	12.34	12.41
Module Efficiency η m (%)	20.3	20.5	20.8	21.1	21.2

STC: Irradiance 1000W/m $^{\circ}$, Cell Temperature 25 $^{\circ}$ C, Air Mass AM1.5. * Measuring tolerance: $\pm 3\%$.

Electrical characteristics with different rear side power gain

5% Maximum Power-P _{MAX} (Wp)	409.5	414.75	420.0	425.25	430.5
5% Module Efficiency η m (%)	21.32	21.52	21.84	22.15	22.26
15% Maximum Power-PMAX (Wp)	448.5	454.25	460	465.75	471.5
15% Module Efficiency η m (%)	23.35	23.58	23.92	24.26	24.38
25% Maximum Power-PMAX (Wp)	487.5	493.75	500.0	506.25	512.5
25% Module Efficiency η m (%)	25.38	25.63	26.0	26.38	26.5

Power Bifaciality:70±5%

ELECTRICAL DATA (NOCT)

Maximum Power-P _{MAX} (Wp)	295	298	302	306	310
Maximum Power Voltage-V _{MPP} (V)	31.8	32.0	32.2	32.5	32.8
Maximum Power Current-I _{MPP} (A)	9.26	9.32	9.38	9.41	9.45
Open Circuit Voltage-Voc (V)	38.4	38.6	38.8	38.9	39.1
Short Circuit Current-Isc (A)	9.78	9.84	9.90	9.95	9.99

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

MECHANICAL DATA

Solar Cells	Monocrystalline		
Cell Orientation	120 cells (5 x 24)		
Module Dimensions	1760±2mm ×1098±2mm ×28±1mm		
Weight	19.5kg±3%		
Front Glass	1.6 mm, High Transmission, AR Coated Heat Strengthened Glass		
Encapsulant material	POE		
Back Glass	1.6 mm, High Transmission, Heat Strengthened Glass		
Frame	28±1mm,Black, anodized aluminium alloy		
J-Box	IP 68 rated (3 bypass diodes)		
Cables	Photovoltaic Technology Cable 4.0mm²		
	Portrait: N 300mm/P 300mm		
	Length can be customized		
Connector	MC4 Compatible		

*Please refer to regional datasheet for specific connector.

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coefficient of PMAX	- 0.35%/℃
Temperature Coefficient of Voc	- 0.27%/℃
Temperature Coefficient of Isc	0.048%/°C

Operational Temperature -40~+85°C Maximum System Voltage 1500VDC Max Series Fuse Rating (IEC) 25A Mechanical Performance P 3600 Pa/N 1600Pa

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

WARRANTY

30 years Product Warranty 30 years Power Warranty 2% First Year Degradation 0.45% Annual Power Degradation

PACKAGING CONFIGURATION

APPLICATION ENVIRONMENT

Modules per pallet: 39 pieces Modules per 40' container: 1014 pieces

(Please refer to product warranty for details)

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

© 2022 Zhejiang Ganghang Solar Technology Co.,Ltd. All rights reserved. Specifications included in this datasheet are subject to change without notice.

Website: www.maysunsolar.com

