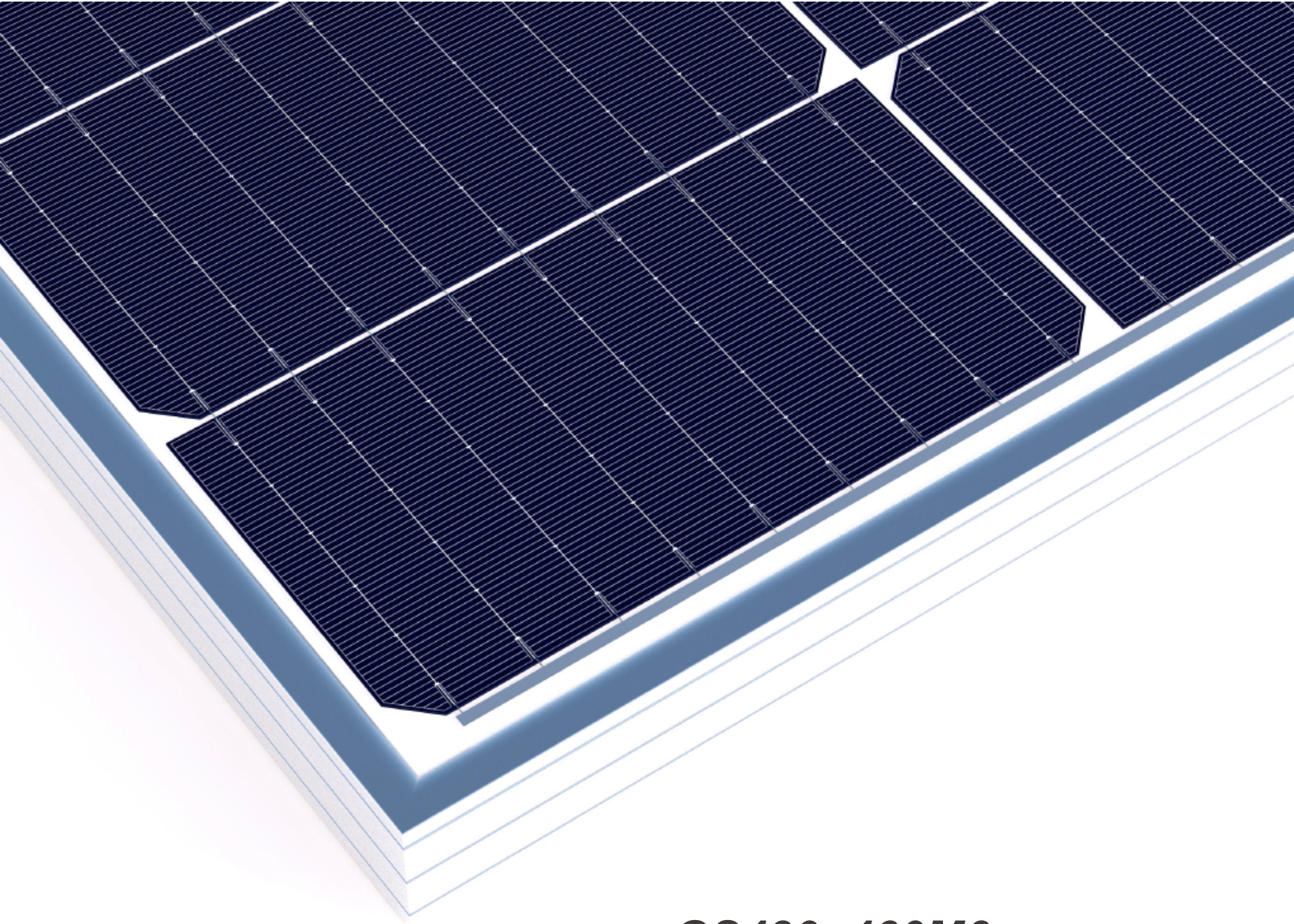




GS430~460M6

430~460 Watt

166mm 144Cells PV Solar Module

GOATSUN
GREATEST OF ALL TIME



MBB PERC
Half Cut Cell



Excellent Low-light
Performance



100% Inspection
Guarantee Reliability



Anti PID



5400Pa
Strengthened
Mechanical Load

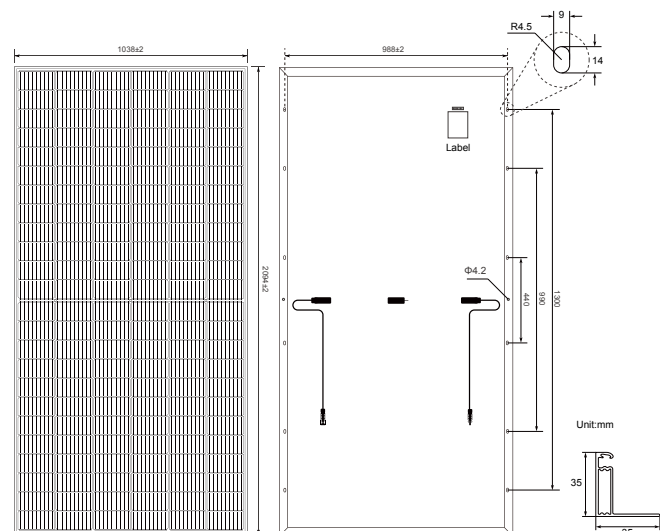


High Density
Packaging

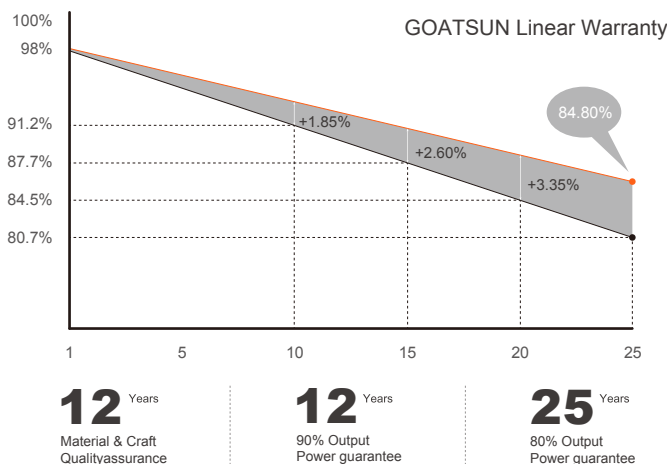


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All Dimensions in mm
The above drawing is a graphical representation of the product.
For engineering quality drawings please contact GOATSUN.



Electrical Characteristics (STC/NOCT)

Module Type	GS430M6		GS435M6		GS440M6		GS445M6		GS450M6		GS455M6		GS460M6	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power- Pmax(W)	430	317.4	435	321.1	440	324.9	445	328.6	450	332.3	455	336.1	460	339.8
Open Circuit Voltage - Voc(V)	48.5	45.3	48.7	45.5	48.9	45.7	49.1	45.8	49.3	46.0	49.5	46.2	49.7	46.4
Short- Circuit Current - Isc(A)	11.31	9.08	11.39	9.15	11.46	9.21	11.53	9.27	11.60	9.33	11.66	9.38	11.73	9.43
Voltage at Pmax -Vmp(V)	40.7	37.7	40.9	37.9	41.1	38.1	41.3	38.3	41.5	38.5	41.7	38.6	41.9	38.8
Current at Pmax - Imp(A)	10.57	8.42	10.64	8.47	10.71	8.53	10.78	8.59	10.85	8.64	10.92	8.70	10.98	8.75
Module Efficiency -ηm(%)	19.8	/	20.0	/	20.2	/	20.5	/	20.7	/	20.9	/	21.2	/
Power Tolerance(W)	(0, +4.99W)													
Maximum System Voltage(V)	1500Vdc (IEC / UL)													
Maximum Series Fuse Rating (A)	20A													

STC : Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

NOCT : Irradiance 800W/m^2 , Ambient Temperature 20°C , Air Mass 1.5, Wind Speed 1m/s

Mechanical Specifications

External Dimensions	2094x1038x35mm
Weight	23.3kg
Solar Cells	Mono crystalline 166mm (2x72pcs)
Front Glass	AR Coated 3.2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm², 50cm (+), 50cm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

Temperature Characteristics

Pmax Temperature Coefficient	-0.350%/ °C
Voc Temperature Coefficient	-0.275%/ °C
Isc Temperature Coefficient	+0.045%/ °C
Operating Temperature	-40 ~ +85 °C
Nominal Operating Cell Temperature(NOCT)	45±2 °C

Packing Configuration

	2094x1038x35mm	
Container	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	5	22
Pieces per Container	155	682

Current-Voltage & Power-Voltage Curves (GS460M6)

