



GS480~505M10

480~505 Watt

182mm 132Cells PV Solar Module

GOATSUN
GREATEST OF ALL TIME



MBB PERC
Half Cut Cell



Excellent Low-light
Performance



100% Inspection
Guarantee Reliability



Anti PID



Strengthened
Mechanical Load

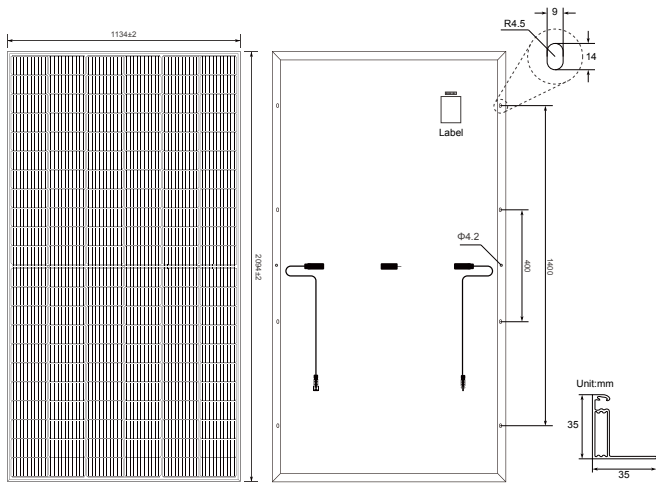


High Density
Packaging

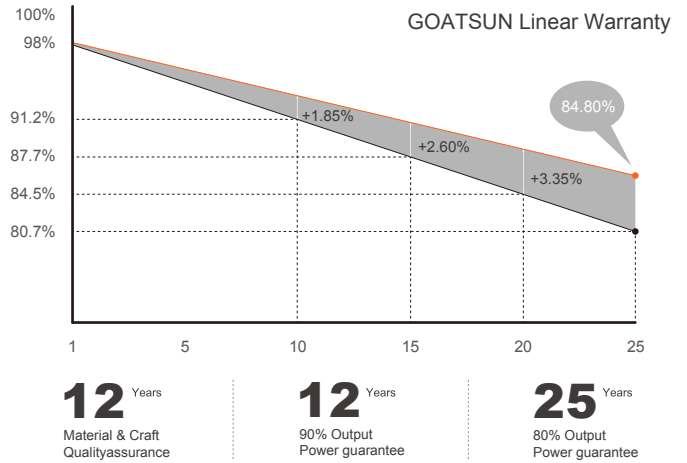


www.goatsun.com

info@goatsun.com



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	GS480M10		GS485M10		GS490M10		GS495M10		GS500M10		GS505M10	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power- Pmax(W)	480	363	485	367	490	370	495	374	500	378	505	382
Open Circuit Voltage - Voc(V)	45.07	42.15	45.20	42.30	45.33	42.43	45.46	42.58	45.59	42.72	45.72	42.86
Short- Circuit Current - Isc(A)	13.65	10.99	13.72	11.06	13.79	11.13	13.86	11.20	13.93	11.27	14.00	11.34
Voltage at Pmax -Vmp(V)	37.62	35.54	37.81	35.67	37.99	35.76	38.17	35.84	38.35	35.93	38.53	36.02
Current at Pmax - Imp(A)	12.76	10.21	12.83	11.06	12.90	11.13	12.97	11.20	13.04	11.27	13.11	11.34
Module Efficiency -ηm(%)	20.3	/	20.4	/	20.6	/	20.8	/	21.1	/	21.3	/
Power Tolerance(W)	(0, +4.99W)											
Maximum System Voltage(V)	1500Vdc (IEC / UL)											
Maximum Series Fuse Rating (A)	25A											

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

NOCT : Irradiance 800W/m², Ambient Temperature 20°C, Air Mass 1.5, Wind Speed 1m/s

Mechanical Specifications

External Dimensions	2094x1134x35mm
Weight	26.3kg
Solar Cells	Mono crystalline 182mm (2x66pcs)
Front Glass	AR Coated 3.2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm ² , 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

	2094x1134x35mm	
Container	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	5	21
Pieces per Container	155	682

Current-Voltage & Power-Voltage Curves (GS505M10)

