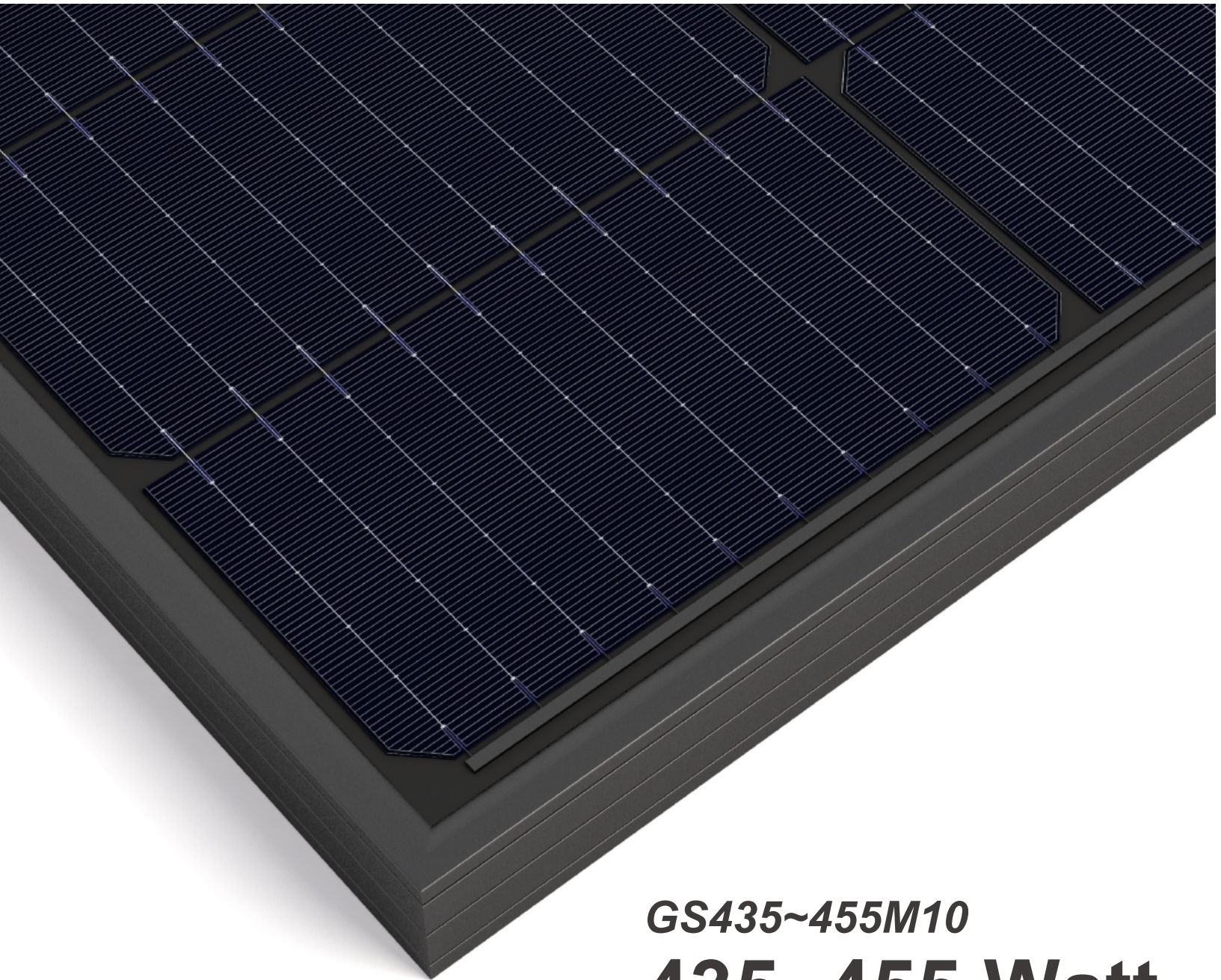




GS435~455M10

435~455 Watt

182mm 120Cells All Black PV Module

GOATSUN
GREATEST OF ALL TIME



MBB PERC
Half Cut Cell



Excellent Low-light
Performance



100% Inspection
Guarantee Reliability



Anti PID



Strengthened
Mechanical Load

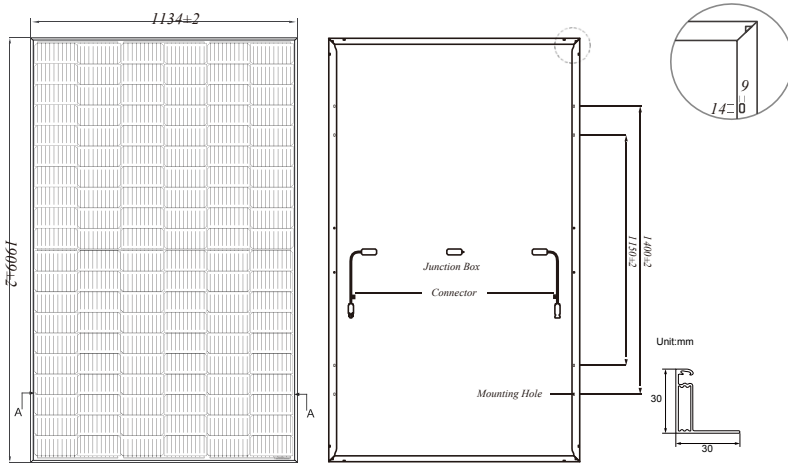


High Density
Packaging

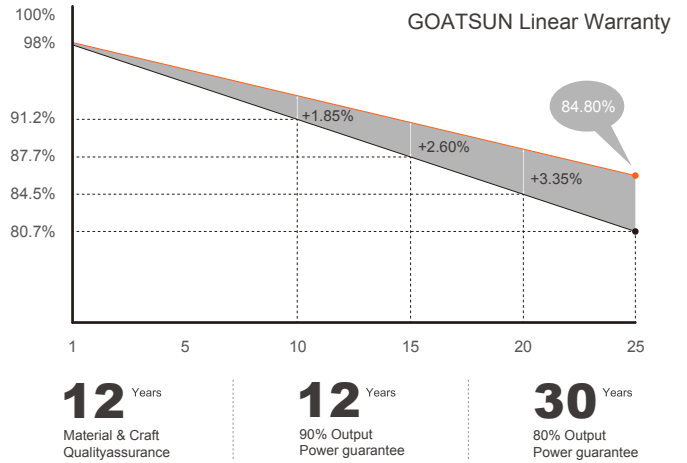


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All Dimensions in mm
The above drawing is a graphical representation of the product.
For engineering quality drawings please contact GOATSUN.



Electrical Characteristics (STC/NOCT)

ELECTRICAL CHARACTERISTICS	STC:AM1.5 1000W/m ² 25 °C		NOCT:AM1.5 800W/m ² 20 °C 1m/s		Test uncertainty for Pmax ±3%					
Module Type	GS435M10-120		GS440M10-120		GS445M10-120		GS450M10-120		GS455M10-120	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	435	327.7	440	331.5	445	335.2	450	339	455	342.8
Open Circuit Voltage(Voc/V)	40.80	38.17	40.95	38.31	41.10	38.45	41.25	38.59	41.40	38.73
Short Circuit Current(Isc/A)	13.34	10.77	13.41	10.82	13.52	10.91	13.62	10.99	13.72	11.07
Voltage at Maximum Power(Vmp/V)	33.76	32.11	33.91	32.30	34.06	32.41	34.21	32.53	34.36	32.65
Current at Maximum Power(Imp/A)	12.89	10.21	12.98	10.26	13.07	10.34	13.16	10.42	13.25	10.50
Module Efficiency(%)	20.09		20.33		20.56		20.79		21.02	

Mechanical Specifications

External Dimensions	1909x1134x35mm
Weight	24.0g
Solar Cells	Mono crystalline 182mm (2x60pcs)
Front Glass	AR Coated 2.0+2.0 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	1.2m
Connector	MC4 EVO2
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

	1909x1134x35mm
Container	40'HQ
Pieces per Pallet	31
Pallets per Container	24
Pieces per Container	744

Current-Voltage & Power-Voltage Curves (GS455M10)

