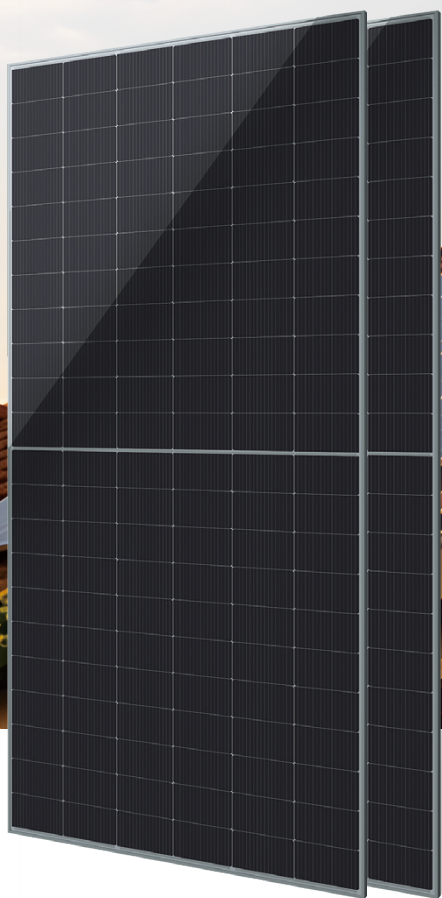


Monocrystalline Solar Panel

EM620W



Premium Efficiency



TOPCon Anti-Degradation – Lower Annual Decay



Higher Yield – Better Temp, Low Light & Bifacial Gain



23.7% Max Efficiency – Powered by Advanced Cell Tech



Strict QC – Reliable & Stable for Long-Term Performance

Endurance Guaranteed

12

years
Material & Processing
Warranty

30

years
Linear Power
Warranty

1%

First-Year Power
Degradation

0.4%

Annual Linear
Power Degradation



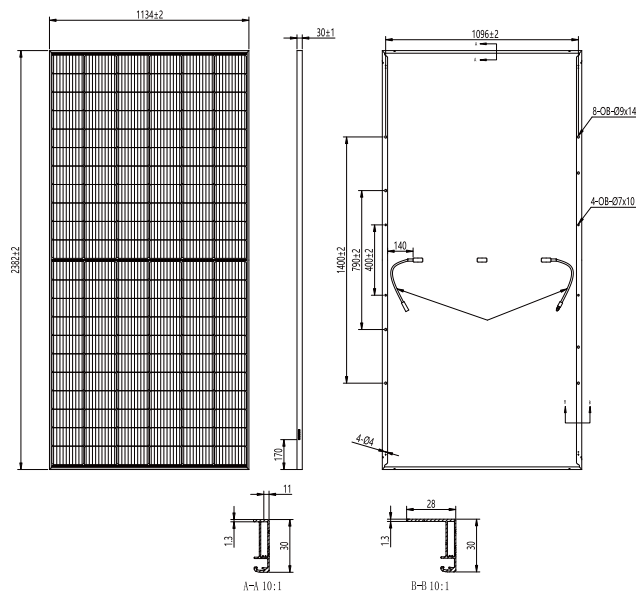
Electrical Parameters

Mechanical Parameters

Cell Type	N-Type Monocrystalline
Cell Arrangement	132 (2 × 66)
Output Cable	TüV 1 × 4mm , (+)300mm, (-)200mm Length customizable upon request
Glass	Front: 2.0mm, semi-tempered AR coated glass
	Back: 2.0mm, semi-tempered glass
Frame	Anodized aluminum alloy frame
Weight	32.4 kg
Dimensions	2382*1134*30 mm
Packaging Info	37 pcs/pallet
	740 pcs/13.5m flatbed trailer, 962 pcs/17.5m flatbed trailer
	148 pcs/20' GP, 740 pcs/40' HC
Safety Class	Class II

Note: The 17.5m vehicle is marked with a load capacity of 28T. Due to inconsistent specifications, the actual loading quantity shall be subject to the quantity upon arrival.

Solar Panel Drawing



Electrical Parameters (Tested under STC & NOCT conditions)

Module Type	EM620M	
Test Conditions	STC	NOCT
Max Power (Pmax/W)	620	469
Open-Circuit Voltage (Voc/V)	48.34	45.81
Short-Circuit Current (Isc/A)	16.21	13.16
Optimum Operating Voltage (Vmp/V)	40.48	38.31
Optimum Operating Current (Imp/A)	15.33	12.27
Module Efficiency (%)	23.0	

Notes: 1. STC (Standard Test Conditions): Irradiance 1000W/M², Cell Temperature 25°C, Air Mass AM1.5

2. NOCT (Nominal Operating Cell Temperature): Irradiance 800W/M², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1M/S

Integrated Electrical Performance vs. Rear-Side Gain

Power Gain	5%	10%	20%
STC Peak Power (Pmax/W)	656.3	687.5	750.0
Open-Circuit Voltage (Voc/V)	48.5	48.5	48.5
Short-Circuit Current (Isc/A)	17.1	17.9	19.5
Optimum Voltage (Vmp/V)	40.6	40.6	40.6
Optimum Current (Imp/A)	16.2	17.0	18.5
Module Efficiency (%)	24.3	25.4	27.8

*Above data for reference only. The latest spec sheet shall prevail upon contract signing.

Operating Parameters

Operating Temperature	-40°C ~ +85°C
Power Tolerance	0 ~ +5W
Maximum System Voltage	DC1500V (IEC)
Nominal Operating Temperature	45 ± 2°C
Maximum Series Fuse Rating	35A
Bifaciality Factor	80 ± 5%
IP Rating (Junction Box)	IP68

Temperature Coefficient (STC)

Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.29%/°C

Load Capacity

Maximum Static Load (Front)	5400Pa
Maximum Static Load (Back)	2400Pa
Passed Hail Test	25mm diameter, 23m/s impact velocity