



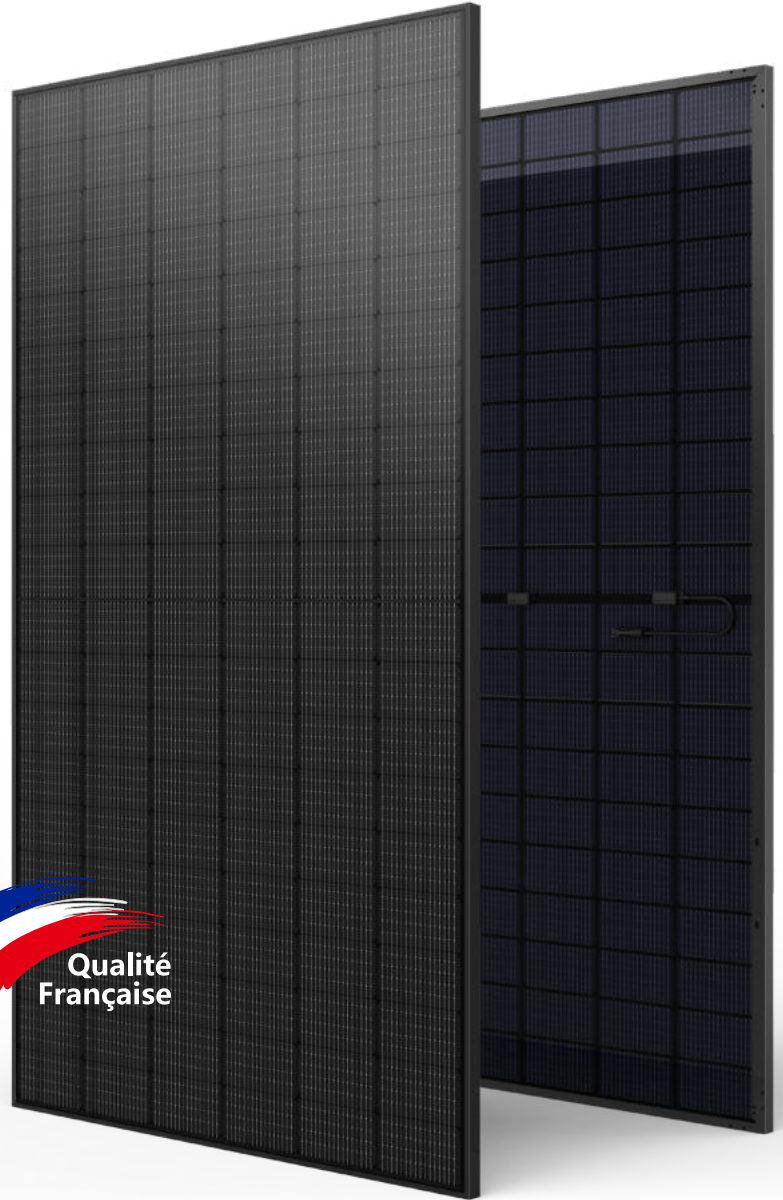
# TOPCon

## 500W

M10R / 182mm Cell - 120 Half-cells

### KEY FEATURES

- Outstanding Power Generation
- Anti PID/ Low LID protection
- Lower temperature coefficient
- Less Hot Spot Shading effects
- Enhanced Bifaciality Factor
- Exceptional Mechanical Resistance



**22.11%**  
Maximum Efficiency

**0~+5W**  
Positive Power Tolerance

**500W**  
Maximum Power Output

**GRADE A**  
Cells Guaranteed

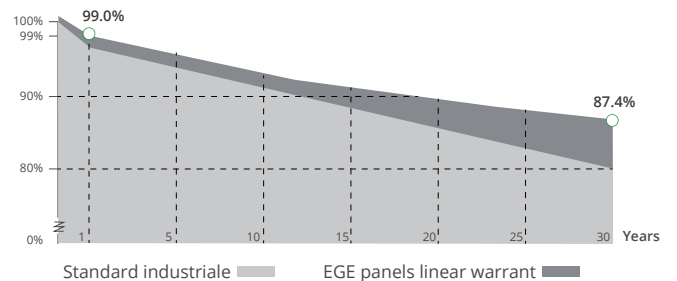
### COMPREHENSIVE CERTIFICATES

IEC 61215 / 61730 / 62716 / 61701 / 60068-2-68  
ISO 9001 / 14001 / 45001



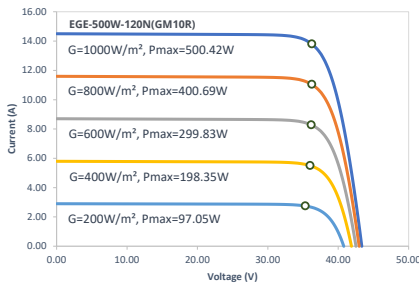
### LINEAR PERFORMANCE WARRANTY

20 Year Product Warranty  
30 Year Linear Power Warranty

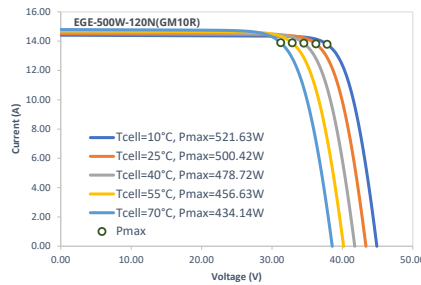


## Characteristics

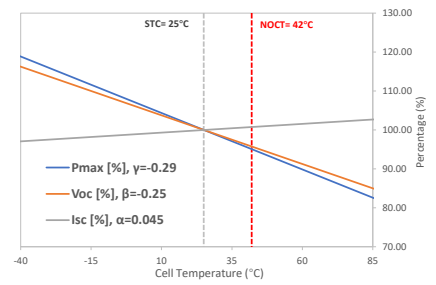
IV-Curves Irradiance



IV-Curves Temperature



Temperature Dependence of Isc,Voc,Pmax



## Electrical Characteristics (STC: E=1000W/m<sup>2</sup> - Tcell=25°C - AM1.5 NOCT: E=800W/m<sup>2</sup> - T=20°C - v=1m/s BiFi30: 30% irradiance ratio)

Module Type	EGE-500W-120N(GM10R)		
	STC	NOCT	BiFi30
Power output (Pmax)	500 W	390.90 W	620.0 W
Maximum power voltage (Vmp)	36.44 V	34.40 V	43.35 V
Maximum power current (Imp)	13.73 A	11.08 A	17.97 A
Open circuit voltage (Voc)	43.35 V	41.20 V	36.44 W
Short circuit current (Isc)	14.50 A	11.69 A	17.01 A
Bifaciality Factor		80 % ± 10 %	
Power selection		0~+5 W	
Module efficiency		22.11 %	

## Mechanical Characteristics

Cell type	Monocrystalline
Number of cells	120 (6x20)
Dimensions	1994x1134x30mm
Weight	28.8 kg
Glass	2.0mm (front) / 2.0mm (rear), tempered glass, AR coated
Frame	Anodized aluminium alloy
Junction box	IP68 rated, 3 bypass diodes
Cable	4.0 mm <sup>2</sup> , 300 mm (+) / 300 mm (-): Length can be customized
Connector	MC4 compatible

## Operating Condition

Operating temperature range	-40°C~+85°C
Max system voltage (IEC)	1500 VDC
Max series fuse rating	30 A
Max front load (e.g.: snow)	5400 Pa
Max back load (e.g.: wind)	2400 Pa

## Packaging (Dimensions of pallet: 2024\*1150\*150mm)

Type	Quantity	Weight
Per Pallet	36 pcs	1072.8 kg
40ft HQ Container	792 pcs	23.6 t

## Engineering Drawings

