



EcoGreenEnergy

EGE-500W-108N(GM10R)
FB-EN.V25.A

TOPCon

500W

M10R / 182*105mm – 108 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

22.48%

Maximum Efficiency

0~+5W

Positive Power
Tolerance

500W

Maximum Power
Output

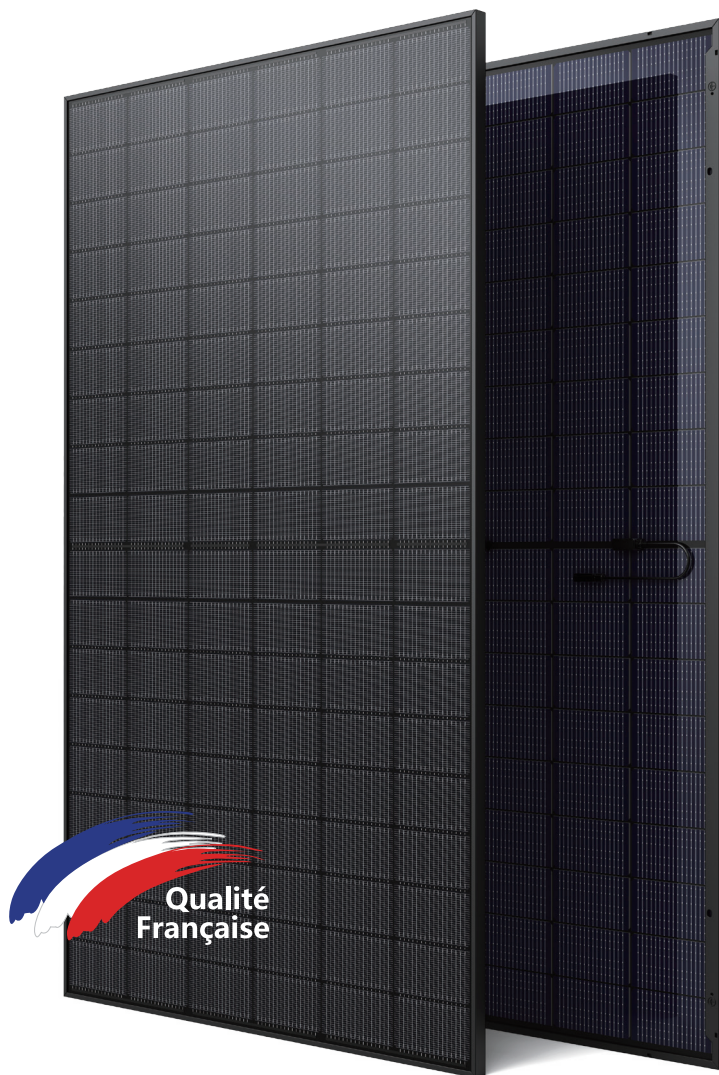
GRADE A

Cells Guaranteed

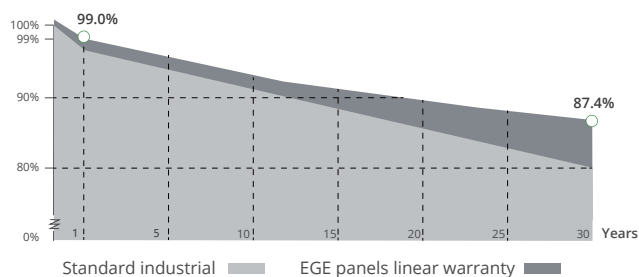
COMPREHENSIVE CERTIFICATES

IEC 61215 / 61730 / 62716 / 61701 / 60068-2-68

ISO 9001 / 14001 / 45001

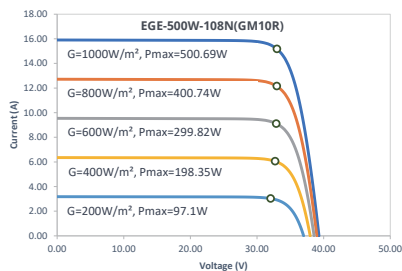


LINEAR PERFORMANCE WARRANTY

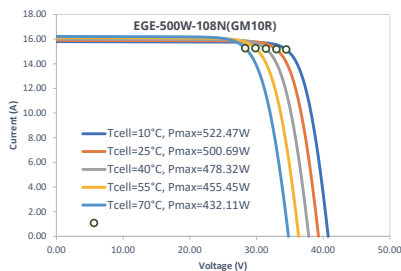


Characteristics

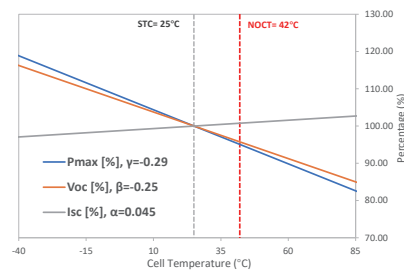
IV-Curves Irradiance



IV-Curves Temperature



Temperature Dependence of Isc, Voc, Pmax



Electrical Characteristics (STC: E=1000W/m² - Tcell=25°C - AM1.5 NOCT: E=800W/m² - T=20°C - v=1m/s BNPI*)

Module Type	EGE-500W-108N(GM10R)		
	STC	NOCT	BNPI
Power output (Pmax)	500 W	397.93 W	558.62 W
Maximum power voltage (Vmp)	34.18 V	26.92 V	34.18 V
Maximum power current (Imp)	14.75 A	14.78 A	16.34 A
Open circuit voltage (Voc)	38.77 V	30.53 V	38.77 V
Short circuit current (Isc)	15.71 A	15.75 A	17.41 A
BSI Isc		19.48	
Bifaciality Factor		85 % ± 10 %	
Power tolerance		0~+5 W	
Module efficiency		22.48%	

* BNPI = Bifacial NamePlate Irradiance

Mechanical Characteristics

Cell type	Monocrystalline
Number of cells	108 (6x18)
Dimensions	1961x1134x30mm
Weight	28.0 kg
Glass	2mm (front) / 2mm (back), tempered glass, anti-reflective coating
Frame	Anodized aluminum alloy
Junction box	IP68 rated (3 by pass diodes)
Cable	4.0 mm², 300 mm (+) / 300 mm (-); Length can be customized
Connector	MC4, MC4 Evo2 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: 1990*1125*1259mm)

Type	Quantity	Weight
Per Pallet	36 pcs	1044 kg
40ft HQ Container	864 pcs	25.06 t

Engineering Drawings

