



EcoGreenEnergy

EGE-485-505W-120N(GM10)

EN.V.24.B

TOPCon

485-505W

M10 / 182mm Cell - 120Half-cells

KEY FEATURES



Outstanding Power Generation



Anti PID/ Low LID protection



Lower temperature coefficient



Less Hot Spot Shading effects

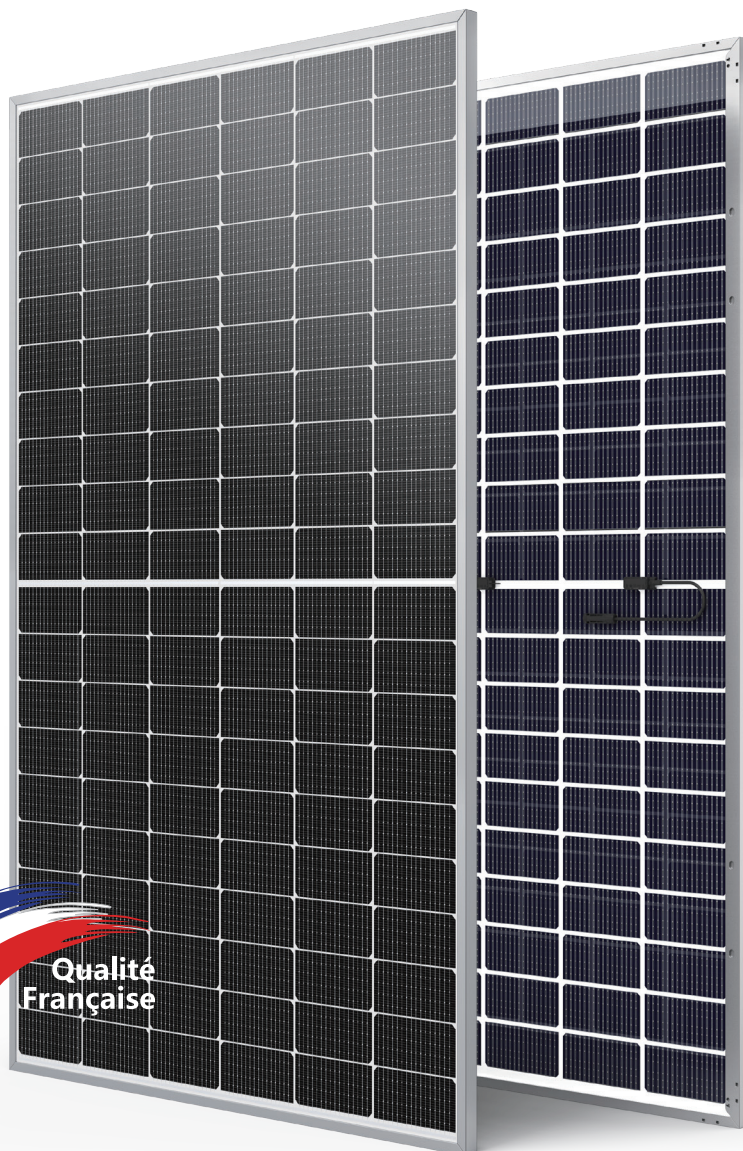


Enhanced Bifaciality Factor



Exceptional Mechanical Resistance

Qualité Française



23.34%

Maximum Efficiency

0~+5W

Positive Power Tolerance

505W

Maximum Power Output

GRADE A

Cells Guaranteed

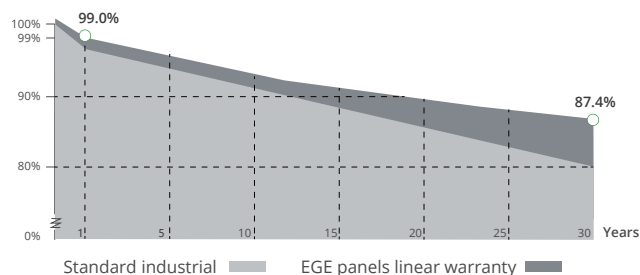
LINEAR PERFORMANCE WARRANTY



COMPREHENSIVE CERTIFICATES

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

ISO 9001 / 14001 / 45001

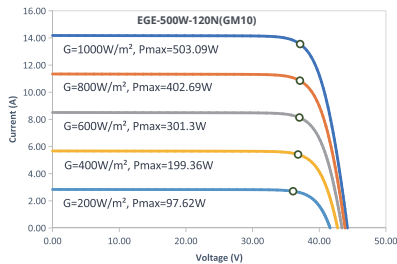


485-505W Bifacial Double Glass

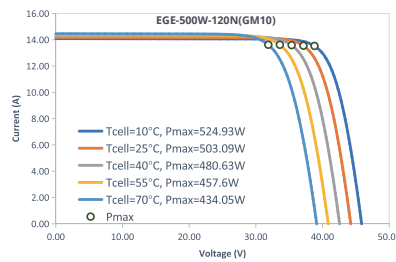
ATLAS TOPCon

Characteristics

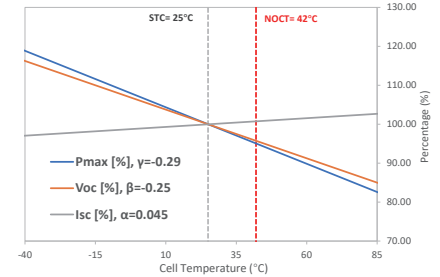
IV-Curves Irradiance



IV-Curves Temperature



Temperature Dependence of Isc, Voc, Pmax



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

Module Type	EGE-485W-120N(GM10)			EGE-490-120N(GM10)			EGE-495W-120N(GM10)			EGE-500W-120N(GM10)			EGE-505W-120N(GM10)		
	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
Power output (Pmax)	485 W	387.62 W	544.14 W	490 W	390.66 W	548.42 W	495 W	394.14 W	553.31 W	500 W	396.84 W	557.10 W	505 W	400.11 W	561.68 W
Maximum power voltage (Vmp)	36.64 V	28.85 V	36.64 V	36.73 V	28.93 V	36.73 V	36.85 V	29.02 V	36.85 V	36.95 V	29.10 V	36.95 V	37.06 V	29.18 V	37.06 V
Maximum power current (Imp)	13.41 A	13.44 A	14.85 A	13.48 A	13.51 A	14.93 A	13.55 A	13.58 A	15.02 A	13.61 A	13.64 A	15.08 A	13.68 A	13.71 A	15.16 A
Open circuit voltage (Voc)	42.70 V	33.62 V	42.70 V	42.79 V	33.70 V	42.79 V	42.91 V	33.79 V	42.91 V	43.01 V	33.87 V	43.01 V	43.12 V	33.96 V	43.12 V
Short circuit current (Isc)	13.97 A	14.00 A	15.47 A	14.04 A	14.07 A	15.55 A	14.11 A	14.14 A	15.64 A	14.18 A	14.21 A	15.71 A	14.26 A	14.29 A	15.80 A
BSI Isc		17.32 A			17.40 A			17.50 A			17.59 A			17.68 A	
Bifaciality Factor	85 % ± 10 %														
Power tolerance	0~+5 W														
Module efficiency	22.42 %			22.65 %			22.88 %			23.11 %			23.34 %		

* BNPI = Bifacial NamePlate Irradiance

Mechanical Characteristics

Cell type	Monocrystalline (182x91 mm)
Number of cells	120 (6x20)
Dimensions	1908x1134x30mm
Weight	27.5 kg
Glass	2.0mm (front) / 2.0mm (rear), tempered glass, AR coated
Frame	Anodized aluminium 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: 1930*1125*1259mm)

Type	Quantity	Weight
Per Pallet	36 pcs	1024 kg
40ft HQ Container	864 pcs	24.58 t

Engineering Drawings

