



EcoGreenEnergy

EGE-545-565W-120N(GM10R)

TOPCon

545-565W

M10R / 210mm 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

22.94%

Maximum Efficiency

0~+5W

Positive Power Tolerance

565W

Maximum Power Output

GRADE A

Cells Guaranteed

Qualité Française

LINEAR PERFORMANCE WARRANTY

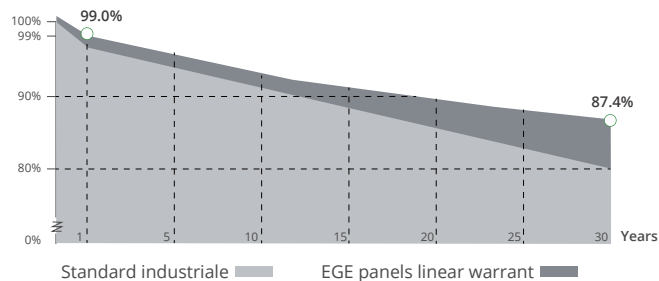
15 Year Product Warranty

30 Year Linear Power Warranty

COMPREHENSIVE CERTIFICATES

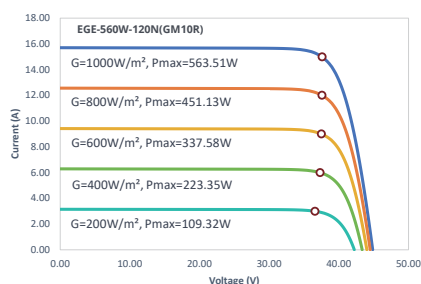
IEC 61215 / 61730 / 62716 / 61701 / 60068-2-68

ISO 9001 / 14001 / 45001

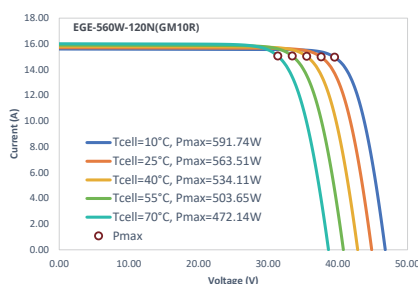


Characteristics

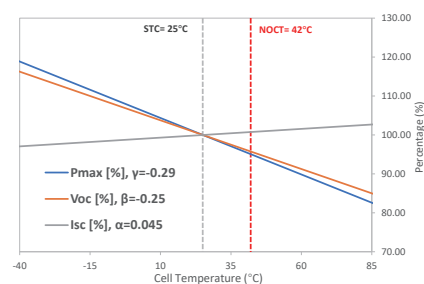
IV-Curves Irradiance



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 BiFi30: 30% irradiance ratio)

Module Type	EGE-545W-120N(GM10R)			EGE-550W-120N(GM10R)			EGE-555W-120N(GM10R)			EGE-560W-120N(GM10R)			EGE-565W-120N(GM10R)		
	STC	NOCT	BiFi30	STC	NOCT	BiFi30	STC	NOCT	BiFi30	STC	NOCT	BiFi30	STC	NOCT	BiFi30
Power output (Pmax)	545 W	410 W	604 W	550 W	414 W	610 W	555 W	417 W	615 W	560 W	421 W	621 W	565 W	425 W	627 W
Maximum power voltage (Vmp)	36.76 V	34.21 V	36.76 V	36.87 V	34.31 V	36.87 V	36.98 V	34.42 V	36.98 V	37.09 V	34.52 V	37.09 V	37.20 V	34.62 V	37.20 V
Maximum power current (Imp)	14.83 A	11.97 A	16.43 A	14.93 A	12.05 A	16.54 A	15.02 A	12.13 A	16.64 A	15.10 A	12.19 A	16.73 A	15.21 A	12.28 A	16.85 A
Open circuit voltage (Voc)	42.43 V	40.31 V	42.43 V	42.54 V	40.41 V	42.54 V	42.66 V	40.53 V	42.66 V	42.84 V	40.70 V	42.84 V	42.96 V	40.81 V	42.96 V
Short circuit current (Isc)	15.78 A	12.74 A	17.49 A	15.84 A	12.79 A	17.55 A	15.88 A	12.82 A	17.59 A	15.94 A	12.87 A	17.66 A	15.97 A	12.90 A	17.70 A
Bifaciality Factor	85% ± 10%														
Power tolerance	0~+5 W														
Module efficiency	22.13%			22.33%			22.53%			22.74%			22.94%		

Mechanical Characteristics

Cell type	Monocrystalline
Number of cells	120 (6x20)
Dimensions	2172x1134x30mm
Weight	31.5 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 mm², 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: 2200*1125*1259mm)

Type	Quantity	Weight
Per Pallet	36 pcs	1170 kg
40ft HQ Container	720 pcs	23.4 t

Engineering Drawings

