Eco Green Energy

EGE-565-585W-120N(GM10R)
EN.V.24.B

N TOPCon

565-585W

M10R / 210mm Cell - 120 Half-cells

KEY FEATURES

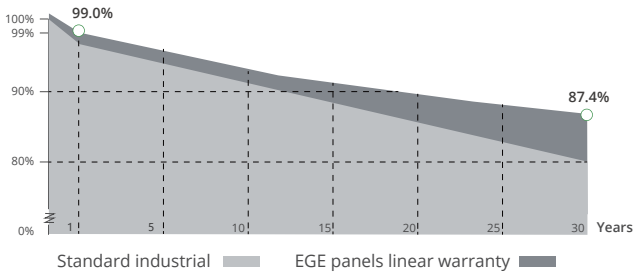
- Outstanding Power Generation
- Anti PID/ Low LID protection
- Lower temperature coefficient
- Less Hot Spot Shading effects
- Enhanced Bifaciality Factor
- Exceptional Mechanical Resistance

23.75% Maximum Efficiency	**0~+5W** Positive Power Tolerance
585W Maximum Power Output	**GRADE A** Cells Guaranteed

LINEAR PERFORMANCE WARRANTY

PRODUCT 15 YEARS WARRANTY

LINEAR POWER 30 YEARS WARRANTY



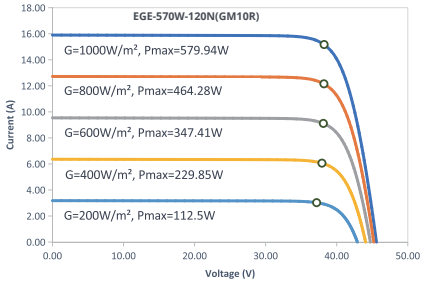
COMPREHENSIVE CERTIFICATES

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

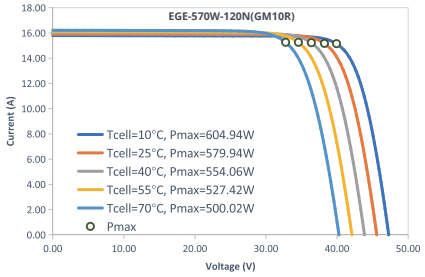
565-585W Bifacial Double Glass ATLAS TOPCon

Characteristics

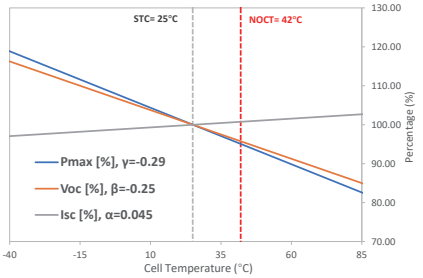
IV-Curves Irradiance



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-565W-120N(GM10R)			EGE-570W-120N(GM10R)			EGE-575W-120N(GM10R)			EGE-580W-120N(GM10R)			EGE-585W-120N(GM10R)		
	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
Power output (Pmax)	565 W	449.34 W	634.49 W	570 W	452.99 W	639.54 W	575 W	456.61 W	644.66 W	580 W	460.25 W	646.11 W	585 W	467.28 W	655.97 W
Maximum power voltage (Vmp)	38.64 V	30.21 V	38.64 V	39.00 V	30.36 V	39.00 V	39.18 V	30.53 V	39.18 V	38.97 V	30.69 V	38.97 V	39.41 V	31.03 V	39.41 V
Maximum power current (Imp)	14.82 A	14.88 A	16.42 A	14.80 A	14.92 A	16.40 A	14.85 A	14.96 A	16.45 A	14.96 A	15.00 A	16.58 A	15.02 A	15.06 A	16.65 A
Open circuit voltage (Voc)	43.62 V	34.00 V	43.62 V	43.80 V	34.04 V	43.80 V	43.92 V	34.11 V	43.92 V	43.40 V	34.18 V	43.40 V	43.64 V	34.36 V	43.64 V
Short circuit current (Isc)	15.90 A	15.75 A	17.62 A	15.90 A	15.75 A	17.62 A	15.91 A	15.75 A	17.63 A	15.72 A	15.75 A	17.42 A	15.73 A	15.76 A	17.42 A
BSI Isc		19.72 A			19.72 A			19.73 A			19.49 A			19.50 A	
Bifaciality Factor	85% ± 10%														
Power tolerance	0~+5 W														
Module efficiency		22.94%			23.14%			23.35%			23.55%			23.75%	

* BNPI = Bifacial NamePlate Irradiance

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, MC4 Evo2 compatible

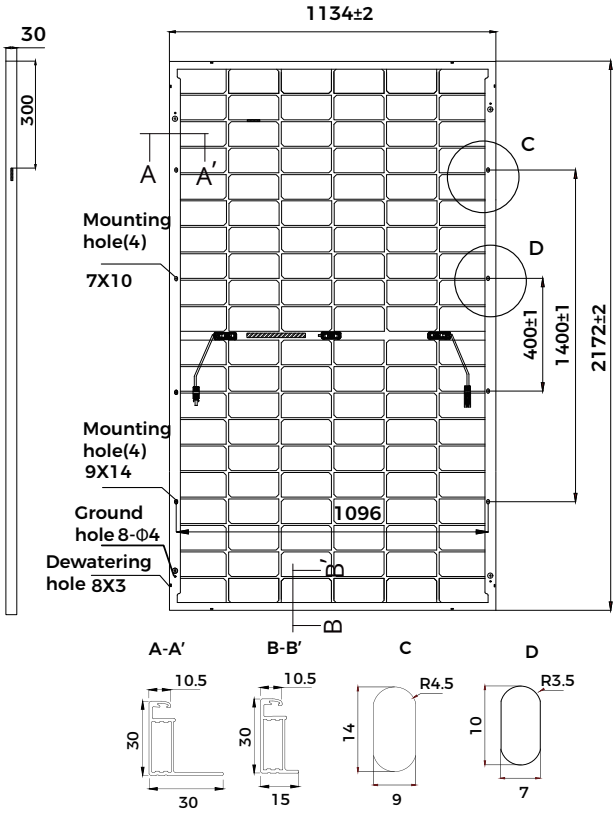
Operating Condition

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: 2200*1125*1259mm)

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

Engineering Drawings



EcoGreenEnergy

Eco Green Energy Limited
Add: No. 8 Wuyi Road, Sutong Science and Technology Industrial Park, Nantong, Jiangsu
Tel: +86 0513 66690088
Email: info@eco-greenenergy.com

eco-greenenergy.com
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