



EcoGreenEnergy

EGE-435-455W-96N(GM10R)

TOPCon

435-455W

M10R / 210mm Cell - 96 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

22.77%

Maximum Efficiency

0~+5W

Positive Power Tolerance

455W

Maximum Power Output

GRADE A

Cells Guaranteed



LINEAR PERFORMANCE WARRANTY

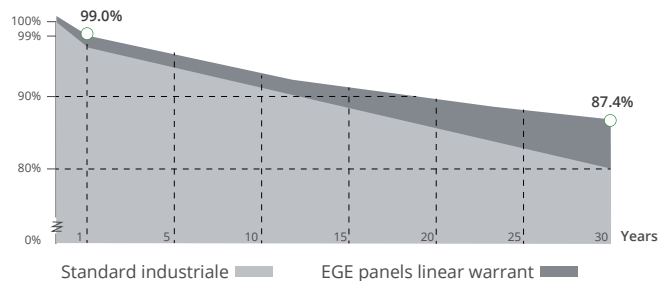
20 Year Product Warranty

30 Year Linear Power Warranty

COMPREHENSIVE CERTIFICATES

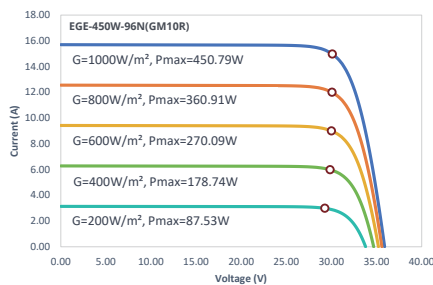
IEC 61215 / 61730 / 62716 / 61701 / 60068-2-68

ISO 9001 / 14001 / 45001

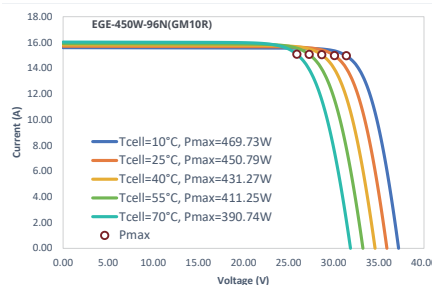


Characteristics

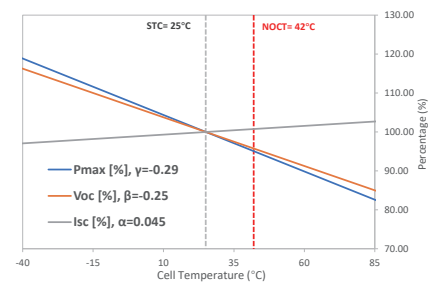
IV-Curves Irradiance



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-435W-96N(GM10R)			EGE-440W-96N(GM10R)			EGE-445W-96N(GM10R)			EGE-450W-96N(GM10R)			EGE-455W-96N(GM10R)		
	STC	NOCT	BiFi30	STC	NOCT	BiFi30	STC	NOCT	BiFi30	STC	NOCT	BiFi30	STC	NOCT	BiFi30
Power output (Pmax)	435 W	327 W	482 W	440 W	331 W	487 W	445 W	335 W	493 W	450 W	339 W	499 W	455 W	342 W	504 W
Maximum power voltage (Vmp)	29.39 V	27.35 V	29.39 V	29.47 V	27.43 V	29.47 V	29.62 V	27.56 V	29.62 V	29.71 V	27.65 V	29.71 V	29.81 V	27.74 V	29.81 V
Maximum power current (Imp)	14.81 A	11.96 A	16.41 A	14.93 A	12.05 A	16.54 A	15.04 A	12.14 A	16.66 A	15.17 A	12.24 A	16.80 A	15.25 A	12.31 A	16.90 A
Open circuit voltage (Voc)	33.95 V	32.25 V	33.95 V	34.03 V	32.33 V	34.03 V	34.18 V	32.47 V	34.18 V	34.32 V	32.61 V	34.32 V	34.42 V	32.70 V	34.42 V
Short circuit current (Isc)	15.77 A	12.73 A	17.47 A	15.84 A	12.79 A	17.55 A	15.90 A	12.84 A	17.62 A	15.95 A	12.88 A	17.67 A	16.00 A	12.92 A	17.72 A
Bifaciality Factor	85 % ± 10 %														
Power tolerance	0~+5 W														
Module efficiency	21.77 %			22.02 %			22.27 %			22.52 %			22.77 %		

Mechanical Characteristics

Cell type	Monocrystalline
Number of cells	96 (6x16)
Dimensions	1762x1134x30mm
Weight	25.4 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: 1790*1125*1259mm)

Type	Quantity	Weight
Per Pallet	36 pcs	950.4 kg
40ft HQ Container	936 pcs	24.71 t

Engineering Drawings

