



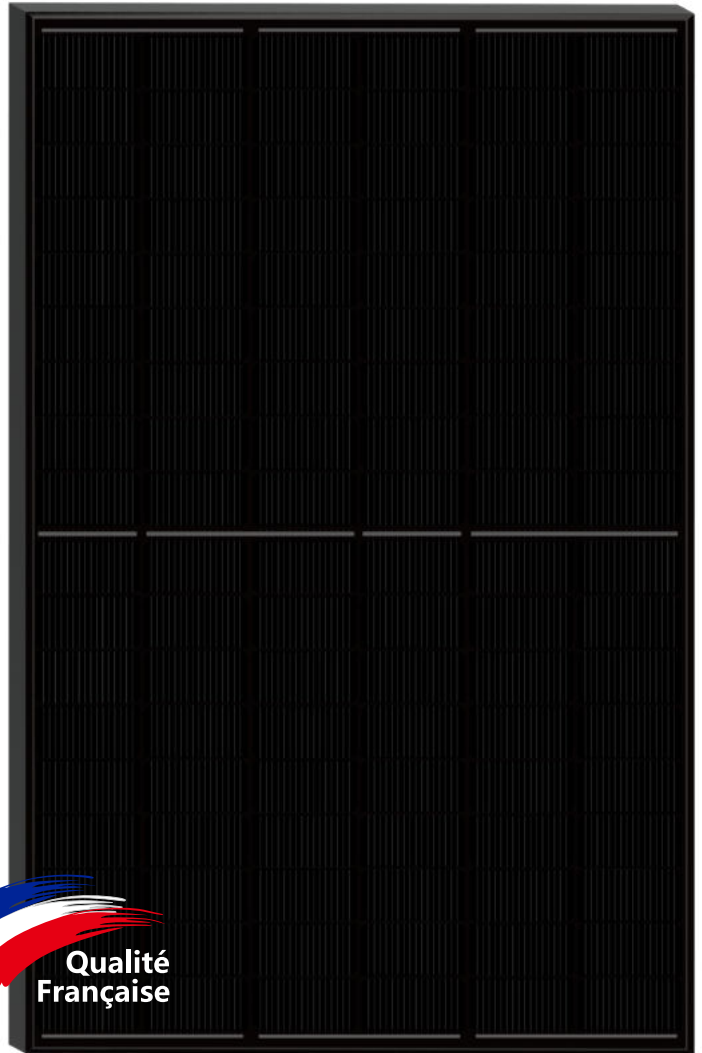
TOPCon

420-440W

M10 / 182mm Cell - 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



22.51%
Maximum Efficiency

0~+5W
Positive Power Tolerance

440W
Maximum Power Output

GRADE A
Cells Guaranteed

COMPREHENSIVE CERTIFICATES

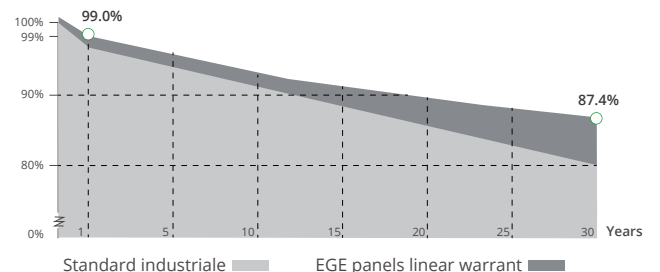
IEC 61215 / 61730 / 62716 / 61701 / 60068-2-68
ISO 9001 / 14001 / 45001



LINEAR PERFORMANCE WARRANTY

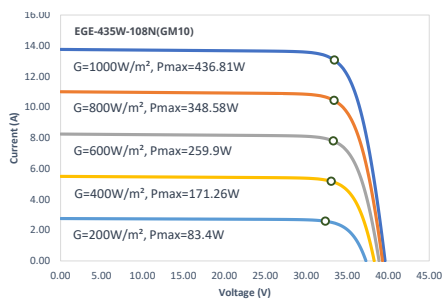
20 Year Product Warranty

30 Year Linear Power Warranty

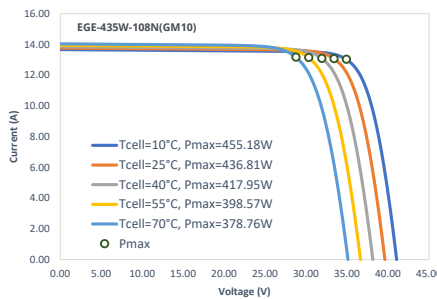


Characteristics

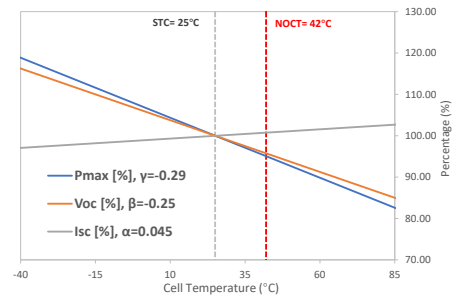
IV-Curves Irradiance



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 BiFi30: 30% irradiance ratio)

Module Type	EGE-420W-108N(GM10)			EGE-425W-108N(GM10)			EGE-430W-108N(GM10)			EGE-435W-108N(GM10)			EGE-440W-108N(GM10)		
	STC	NOCT	BiFi30	STC	NOCT	BiFi30	STC	NOCT	BiFi30	STC	NOCT	BiFi30	STC	NOCT	BiFi30
Power output (Pmax)	420 W	318 W	520.8 W	425 W	322 W	527.0 W	430 W	326 W	533.2 W	435 W	330 W	539.4 W	440 W	334 W	545.6 W
Maximum power voltage (Vmp)	32.62 V	30.0 V	32.62 V	32.94 V	30.2 V	32.94 V	33.21 V	30.3 V	33.21 V	33.43 V	30.5 V	33.43 V	33.59 V	30.7 V	33.59 V
Maximum power current (Imp)	12.90 A	10.62 A	15.97 A	12.94 A	10.67 A	16.00 A	12.99 A	10.74 A	16.06 A	13.07 A	10.82 A	16.14 A	13.11 A	10.88 A	16.24 A
Open circuit voltage (Voc)	37.53 V	36.2 V	37.53 V	37.69 V	36.4 V	37.69 V	37.96 V	36.6 V	37.96 V	38.29 V	36.8 V	38.29 V	38.45 V	37.0 V	38.45 V
Short circuit current (Isc)	13.64 A	11.27 A	16.89 A	13.71 A	11.33 A	16.95 A	13.75 A	11.38 A	16.99 A	13.76 A	11.44 A	16.99 A	13.79 A	11.49 A	17.08 A
Bifaciality Factor	80% ± 10%														
Power tolerance	0~+5 W														
Module efficiency	21.48 %			21.74 %			21.99 %			22.25 %			22.51 %		

Mechanical Characteristics

Cell type	Monocrystalline (182x91 mm)
Number of cells	108 (6x18)
Dimensions	1722x1134x30mm
Weight	24.8 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 mm ² , 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: 1755*1125*1259mm)

Type	Quantity	Weight
Per Pallet	36 pcs	926.8 kg
40ft HQ Container	936 pcs	24.10 t

Engineering Drawings

