



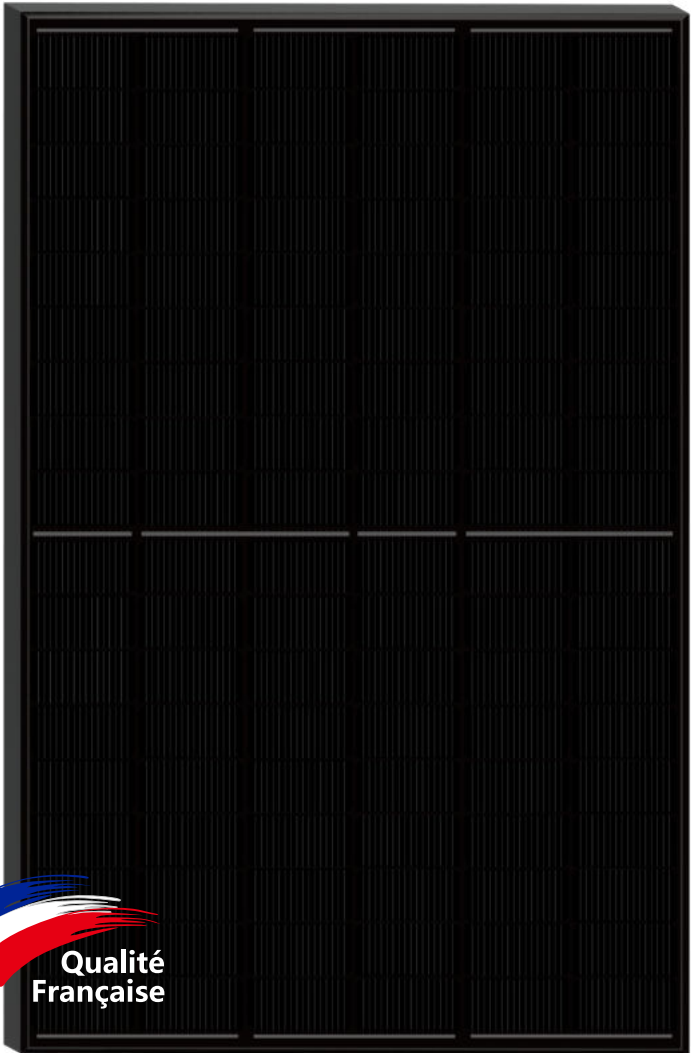
TOPCon

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



22.51%
Maximum Efficiency

0~+5W
Positive Power Tolerance

440W
Maximum Power Output

GRADE A
Cells Guaranteed

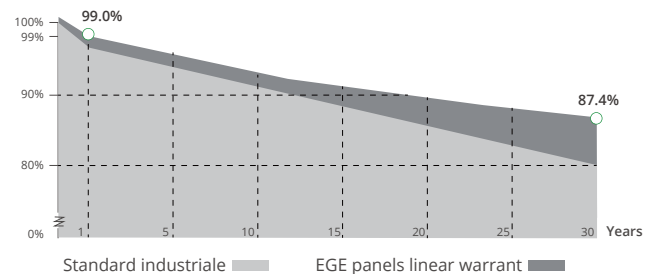
COMPREHENSIVE CERTIFICATES

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



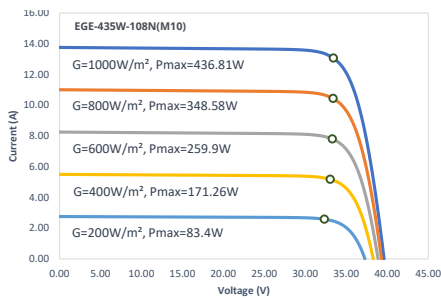
LINEAR PERFORMANCE WARRANTY

20 Year Product Warranty
30 Year Linear Power Warranty

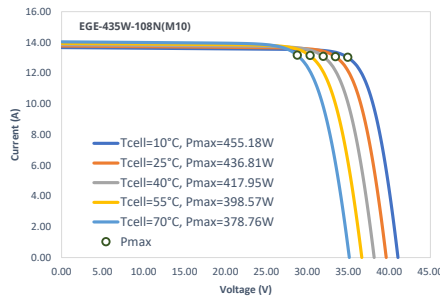


Characteristics

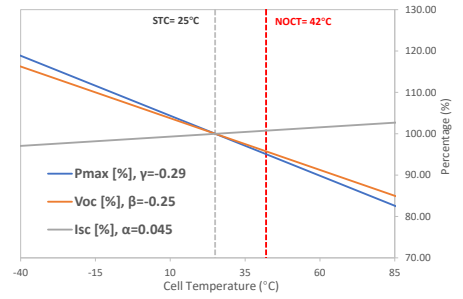
IV-Curves Irradiance



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)

Module Type	EGE-420W-108N(M10)		EGE-425W-108N(M10)		EGE-430W-108N(M10)		EGE-435W-108N(M10)		EGE-440W-108N(M10)	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power output (Pmax)	420 W	318 W	425 W	322 W	430 W	326 W	435 W	330 W	440 W	334 W
Maximum power voltage (Vmp)	32.62 V	30.0 V	32.94 V	30.2 V	33.21 V	30.3 V	33.43 V	30.5 V	33.59 V	30.7 V
Maximum power current (Imp)	12.90 A	10.62 A	12.94 A	10.67 A	12.99 A	10.74 A	13.07 A	10.82 A	13.11 A	10.88 A
Open circuit voltage (Voc)	37.53 V	36.2 V	37.69 V	36.4 V	37.96 V	36.6 V	38.29 V	36.8 V	38.45 V	37.0 V
Short circuit current (Isc)	13.64 A	11.27 A	13.71 A	11.33 A	13.75 A	11.38 A	13.76 A	11.44	13.79 A	11.49 A
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	21.9 kg
Glass	3.2mm, tempered glass, AR coated
Frame	Anodized aluminium alloy
Junction box	IP68 rated, 3 bypass 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	822.4 kg
40ft HQ Container	936 pcs	21.38 t

Engineering Drawings

