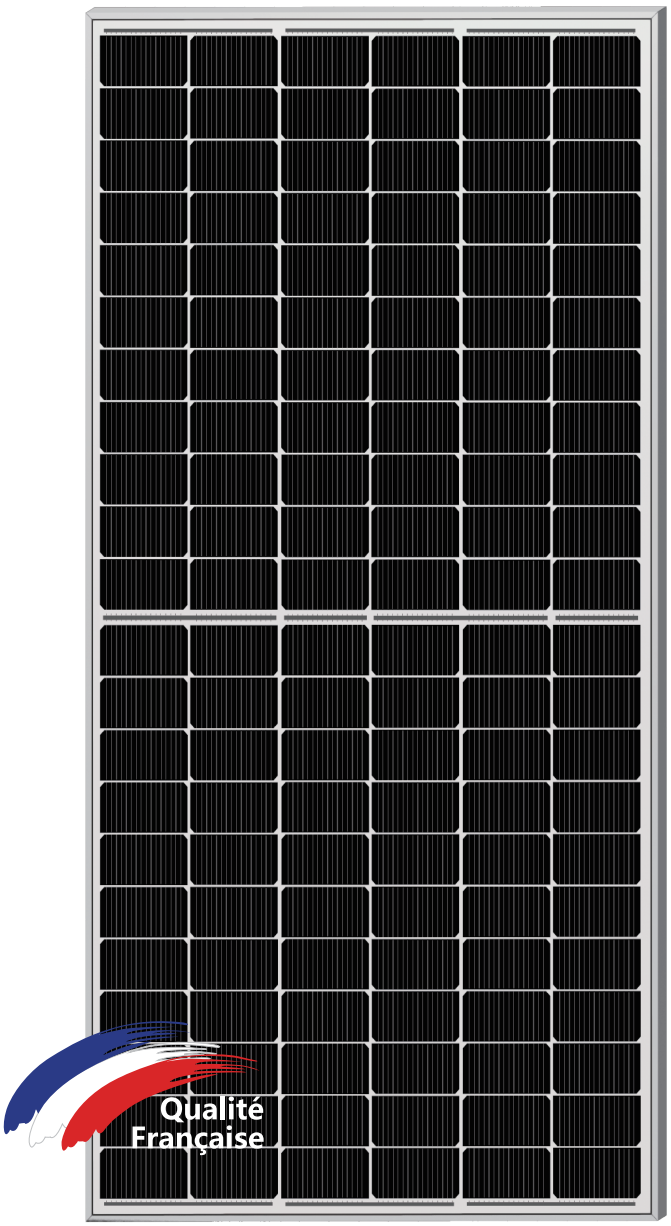
Eco Green Energy

EGE-620-640W-132N(GM10R)
EN.V.24.B

N TOPCon

620-640W

M10R / 210mm Cell - 132 Half-cells



KEY FEATURES

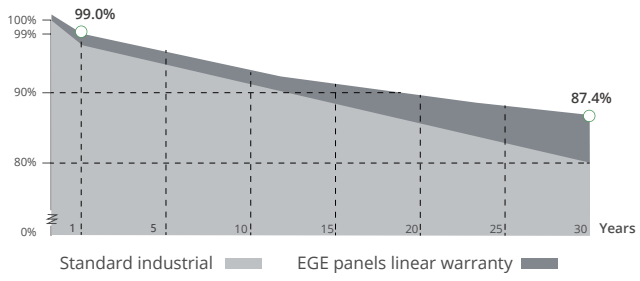
- Outstanding Power Generation
- Anti PID/ Low LID protection
- Lower temperature coefficient
- Less Hot Spot Shading effects
- Enhanced Bifaciality Factor
- Exceptional Mechanical Resistance

23.69% Maximum Efficiency	**0~+5W** Positive Power Tolerance
640W Maximum Power Output	**GRADE A** Cells Guaranteed

LINEAR PERFORMANCE WARRANTY

PRODUCT 15 YEARS WARRANTY

LINEAR POWER 30 YEARS WARRANTY



COMPREHENSIVE CERTIFICATES

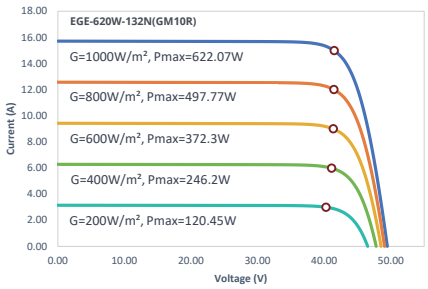
IEC 61215 / 61730 / 62716 / 61701 / 60068-2-68

ISO 9001 / 14001 / 45001

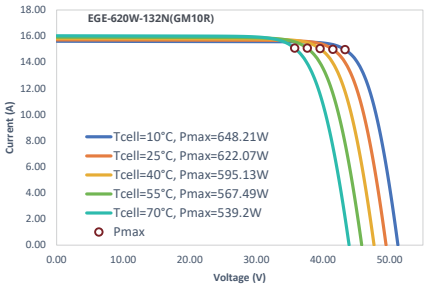
620-640W Bifacial Double Glass ATLAS TOPCon

Characteristics

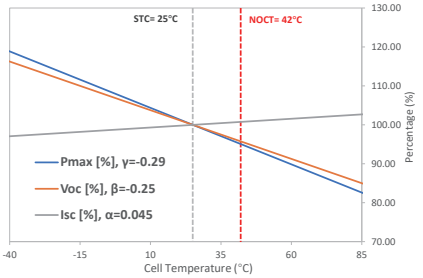
IV-Curves Irradiance



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-620W-132N(GM10R)			EGE-625W-132N(GM10R)			EGE-630W-132N(GM10R)			EGE-635W-132N(GM10R)			EGE-640W-132N(GM10R)		
	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
Power output (Pmax)	620 W	494.27 W	692.37 W	625 W	498.29 W	697.94 W	630 W	502.27 W	703.49 W	635 W	506.27 W	709.13 W	640 W	510.35 W	716.44 W
Maximum power voltage (Vmp)	42.11 V	33.23 V	42.11 V	42.50 V	33.40 V	42.50 V	42.90 V	33.58 V	42.90 V	43.10 V	33.76 V	43.10 V	43.10 V	33.94 V	43.10 V
Maximum power current (Imp)	14.84 A	14.88 A	16.44 A	14.82 A	14.92 A	16.42 A	14.80 A	14.96 A	16.40 A	14.85 A	15.00 A	16.45 A	15.00 A	15.03 A	16.62 A
Open circuit voltage (Voc)	47.78 V	37.40 V	47.78 V	47.98 V	37.44 V	47.98 V	48.18 V	37.53 V	48.18 V	48.31 V	37.60 V	48.31 V	47.86 V	37.69 V	47.86 V
Short circuit current (Isc)	15.88 A	15.75 A	17.60 A	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	15.76 A	17.42 A
BSI Isc		19.69 A			19.72 A			19.72 A			19.73 A			19.49 A	
Bifaciality Factor	85% ± 10%														
Power tolerance	0~+5 W														
Module efficiency		22.95%			23.14%			23.32%			23.51%			23.69%	

* BNPI = Bifacial NamePlate Irradiance

Mechanical Characteristics

Cell type	Monocrystalline
Number of cells	132 (6x22)
Dimensions	2382x1134x30mm
Weight	33kg
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

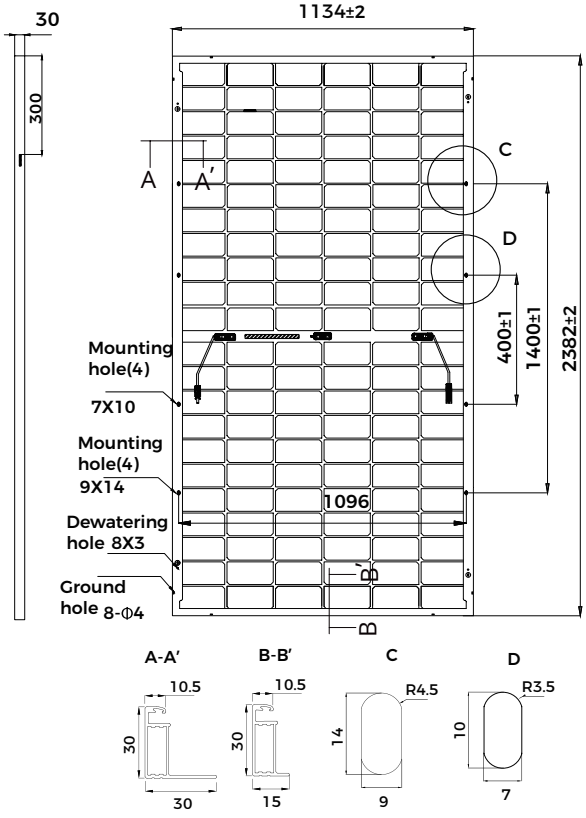
Operating Condition

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: 1160*1125*2540mm)

Type	Quantity	Weight
Per Pallet	36 pcs	1284.2 kg
40ft HQ Container	720 pcs	25.68 t

Engineering Drawings



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