



EcoGreenEnergy

EGE-535-555W-132N(GM10)
EN.V.24.B

TOPCon

535-555W

M10 / 182mm Cell - 132Half-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

23.37%

Maximum Efficiency

0~+5W

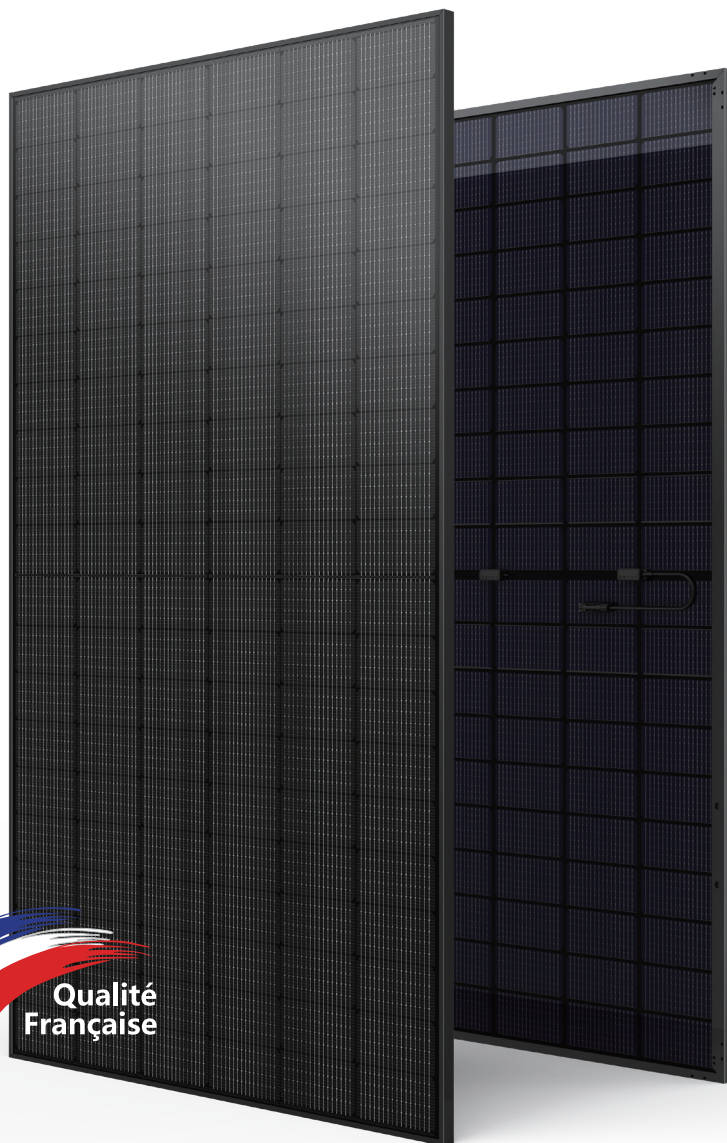
Positive Power Tolerance

555W

Maximum Power Output

GRADE A

Cells Guaranteed



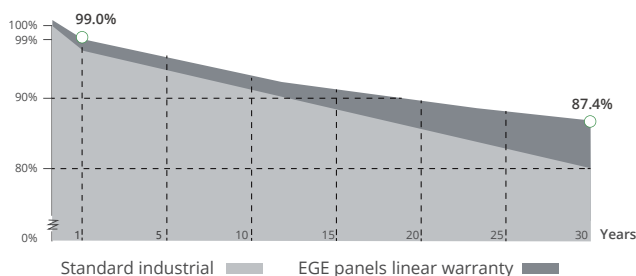
LINEAR PERFORMANCE WARRANTY



COMPREHENSIVE CERTIFICATES

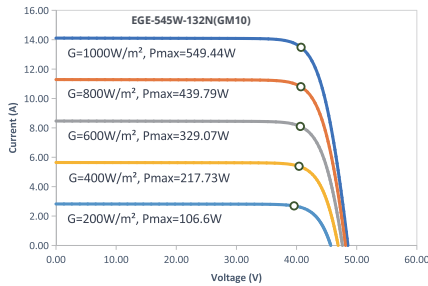
IEC 61215 / 61730 / 62716 / 61701 / 60068-2-68

ISO 9001 / 14001 / 45001

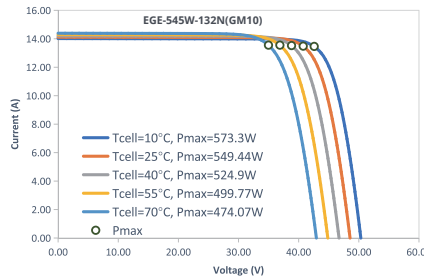


Characteristics

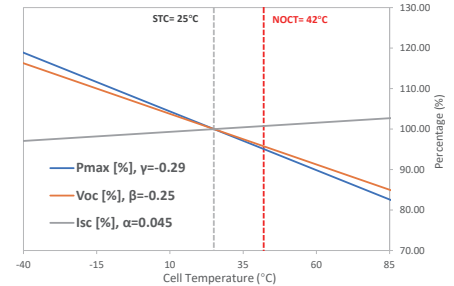
IV-Curves Irradiance



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 BNPI*)

Module Type	EGE-535W-132N(GM10)			EGE-540W-132N(GM10)			EGE-545W-132N(GM10)			EGE-550W-132N(GM10)			EGE-555W-132N(GM10)		
	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
Power output (Pmax)	535 W	426.38 W	598.56 W	540 W	429.73 W	603.26 W	545 W	433.56 W	608.64 W	550 W	436.53 W	612.81 W	555 W	440.12 W	617.85 W
Maximum power voltage (Vmp)	40.30 V	31.74 V	40.30 V	40.41 V	31.82 V	40.41 V	40.53 V	31.92 V	40.53 V	40.65 V	32.01 V	40.65 V	40.76 V	32.10 V	40.76 V
Maximum power current (Imp)	13.41 A	13.44 A	14.85 A	13.48 A	13.51 A	14.93 A	13.55 A	13.58 A	15.02 A	13.61 A	13.64 A	15.08 A	13.68 A	13.71 A	15.16 A
Open circuit voltage (Voc)	46.97 V	36.99 V	46.97 V	47.07 V	37.07 V	47.07 V	47.20 V	37.17 V	47.20 V	47.32 V	37.26 V	47.32 V	47.43 V	37.35 V	47.43 V
Short circuit current (Isc)	13.97 A	14.00 A	15.47 A	14.04 A	14.07 A	15.55 A	14.11 A	14.14 A	15.64 A	14.18 A	14.21 A	15.71 A	14.26 A	14.29 A	15.80 A
BSI Isc		17.32 A			17.40 A			17.50 A			17.59 A			17.68 A	
Bifaciality Factor								85 % ± 10 %							
Power tolerance								0~+5 W							
Module efficiency		22.53 %			22.74 %			22.95 %			23.16 %			23.37 %	

* BNPI = Bifacial NamePlate Irradiance

Mechanical Characteristics

Cell type	Monocrystalline (182x91 mm)
Number of cells	132 (6x22)
Dimensions	2094x1134x30mm
Weight	30.3 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 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: 2124*1125*1259mm)

Type	Quantity	Weight
Per Pallet	36 pcs	1124.8 kg
40ft HQ Container	792 pcs	24.75 t

Engineering Drawings

