



EcoGreenEnergy

EGE-585-605W-144N(GM10)

EN.V.24.B

TOPCon

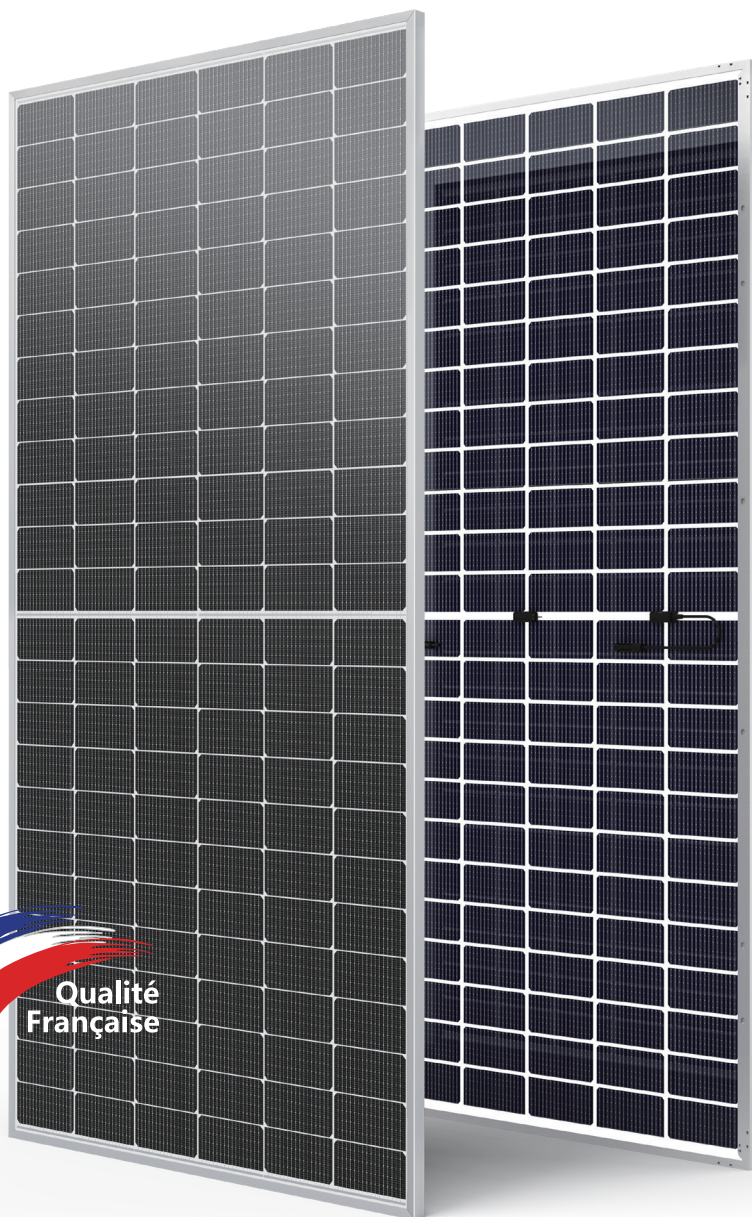
585-605W

M10 / 182mm Cell - 144 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

Qualité Française



23.42%

Maximum Efficiency

0~+5W

Positive Power Tolerance

605W

Maximum Power Output

GRADE A

Cells Guaranteed

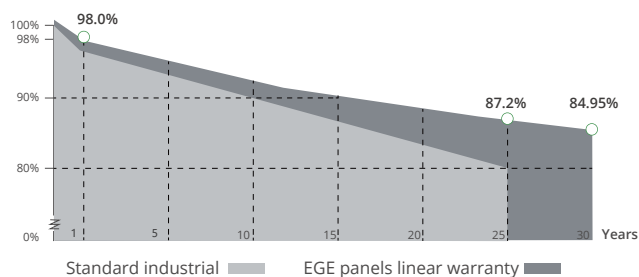
COMPREHENSIVE CERTIFICATES

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

ISO 9001 / 14001 / 45001

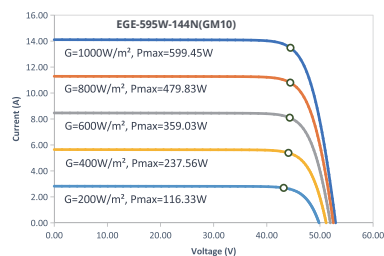


LINEAR PERFORMANCE WARRANTY

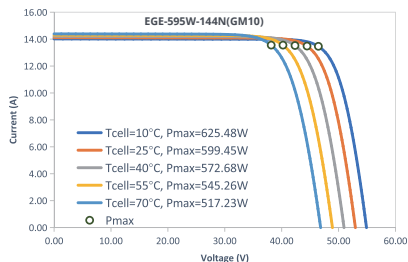


Characteristics

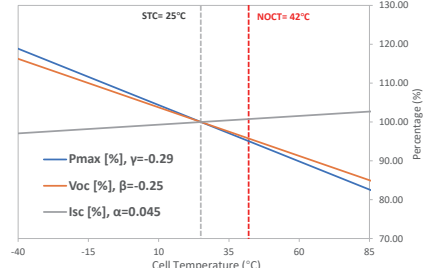
IV-Curves Irradiance



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 BNPI*)

Module Type	EGE-585W-144N(GM10)			EGE-590W-144N(GM10)			EGE-595W-144N(GM10)			EGE-600W-144N(GM10)			EGE-605W-144N(GM10)		
	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
Power output (Pmax)	585 W	465.14 W	652.97 W	590 W	468.79 W	658.10 W	595 W	472.97 W	663.97 W	600 W	476.21 W	668.52 W	605 W	481.95 W	674.06 W
Maximum power voltage (Vmp)	43.96 V	34.62 V	43.96 V	44.08 V	34.71 V	44.08 V	44.22 V	34.82 V	44.22 V	44.34 V	34.92 V	44.34 V	44.46 V	34.91 V	44.46 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	10.98 A	15.16 A
Open circuit voltage (Voc)	51.24 V	40.35 V	51.24 V	51.35 V	40.44 V	51.35 V	51.49 V	40.55 V	51.49 V	51.62 V	40.65 V	51.62 V	51.73 V	51.09 V	51.73 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	14.25 A	11.44 A	15.79 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		22.65 %			22.84 %			23.03 %			23.23 %			23.42 %	

* BNPI = Bifacial NamePlate Irradiance

Mechanical Characteristics

Cell type	Monocrystalline (182x91 mm)
Number of cells	144 (6x24)
Dimensions	2278x1134x30mm
Weight	33.0 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: 2308*1125*1259mm)

Type	Quantity	Weight
Per Pallet	36 pcs	1222 kg
40ft HQ Container	720 pcs	24.44 t

Engineering Drawings

