

TOPCon

470-490W

M10 / 182mm Cell - 120Half-cells

KEY FEATURES



Outstanding Power Generation



Anti PID/ Low LID protection



Lower temperature coefficient



Less Hot Spot Shading effects

22.62%

Maximum Efficiency

0~+5W

Positive Power Tolerance

490W

Maximum Power Output

GRADE A

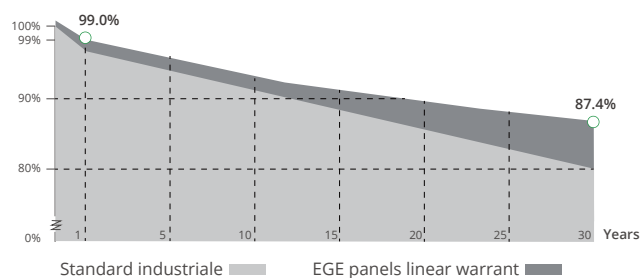
Cells Guaranteed



LINEAR PERFORMANCE WARRANTY

20 Year Product Warranty

30 Year Linear Power Warranty



COMPREHENSIVE CERTIFICATES

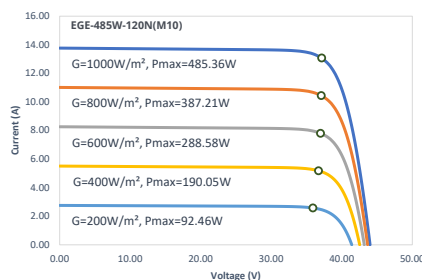
IEC 61215/ IEC 61730 / IEC 61701 / IEC 62716

ISO 9001 : Quality Management Systems

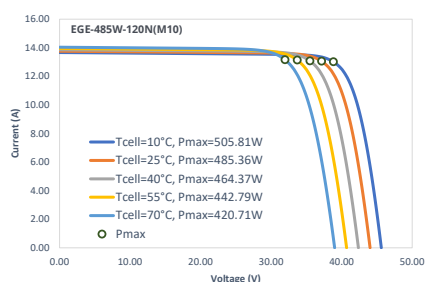


Characteristics

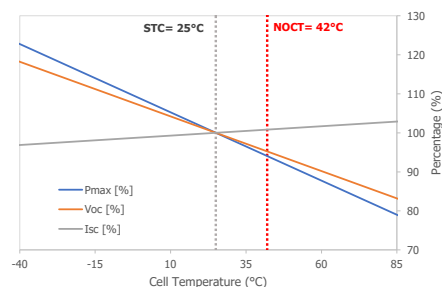
IV-Curves Irradiance



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-470W-120N(M10)		EGE-475-120N(M10)		EGE-480W-120N(M10)		EGE-485W-120N(M10)		EGE-490W-120N(M10)	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power output (Pmax)	470 W	353 W	475 W	357 W	480 W	361 W	485 W	365 W	490 W	369 W
Maximum power voltage (Vmp)	36.48 V	33.21 V	36.72 V	33.40 V	37.02 V	33.61 V	37.14 V	33.84 V	37.83 V	34.00 V
Maximum power current (Imp)	12.93 A	10.63 A	12.95 A	10.69 A	13.00 A	10.74 A	13.07 A	10.80 A	12.97 A	10.86 A
Open circuit voltage (Voc)	41.82 V	41.14 V	41.94 V	41.28 V	42.30 V	41.42 V	42.54 V	41.57 V	42.98 V	41.71 V
Short circuit current (Isc)	13.69 A	11.05 A	13.73 A	11.12 A	13.75 A	11.18 A	13.76 A	11.24 A	13.66 A	11.31 A
Power tolerance	0~+5 W									
Module efficiency	21.70 %		21.93 %		22.16 %		22.39 %		22.62 %	

Mechanical Characteristics

Cell type	Monocrystalline (182x91 mm)
Number of cells	120
Dimensions	1910x1134x30mm
Weight	24.2 kg
Glass	3.2mm, 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: 1930*1125*125mm)

Type	Quantity	Weight
Per Pallet	36 pcs	905.2 kg
40ft HQ Container	864 pcs	21.72 t

Engineering Drawings

