







ATLAS

485-505W

M10 / 182mm Cell - 132 Half-cells

KEY FEATURES

-  Outstanding Power Generation
-  Anti PID/ Low LID protection
-  Lower temperature coefficient
-  Less Hot Spot Shading effects

21.27%
Maximum Efficiency

0~+5W
Positive Power Tolerance

505W
Maximum Power Output

GRADE A
Cells Guaranteed



COMPREHENSIVE CERTIFICATES

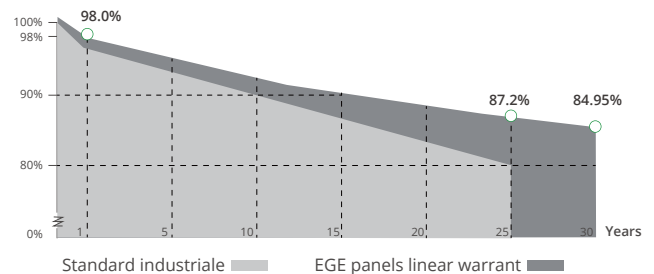
IEC 61215 / 61730 / 62716 / 61701 / 60068-2-68
ISO 9001 / 14001 / 45001



LINEAR PERFORMANCE WARRANTY

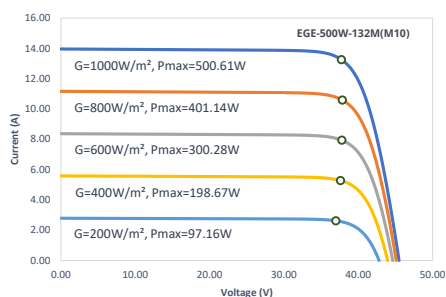
12 Year Product Warranty

30 Year Linear Power Warranty

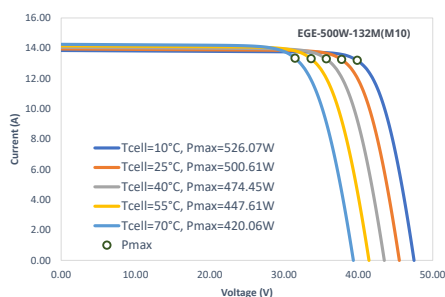


Characteristics

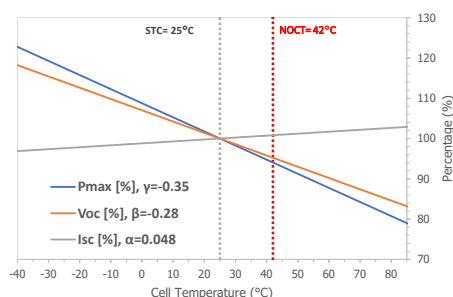
IV-Curves Irradiance



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 BiFi30: 30% irradiance ratio)

Module Type	EGE-485W-132M(GM10)			EGE-490W-132M(GM10)			EGE-495W-132M(GM10)			EGE-500W-132M(GM10)			EGE-505W-132M(GM10)		
	STC	NOCT	BiFi30	STC	NOCT	BiFi30	STC	NOCT	BiFi30	STC	NOCT	BiFi30	STC	NOCT	BiFi30
Power output (Pmax)	485 W	366.10 W	586.85 W	490 W	369.90 W	592.90 W	495 W	373.60 W	598.95 W	500 W	377.40 W	605.00 W	505 W	381.20 W	611.05 W
Maximum power voltage (Vmp)	37.81 V	35.10 V	37.81 V	37.99 V	35.30 V	37.99 V	45.46 V	35.40 V	38.17 V	38.35 V	35.60 V	38.35 V	38.53 V	35.70 V	38.53 V
Maximum power current (Imp)	12.83 A	10.43 A	15.52 A	12.90 A	10.49 A	15.61 A	13.86 A	10.55 A	15.69 A	13.04 A	10.61 A	15.78 A	13.11 A	10.68 A	15.86 A
Open circuit voltage (Voc)	45.20 V	42.50 V	45.20 V	45.33 V	42.70 V	45.33 V	38.17 V	42.80 V	45.46 V	45.59 V	42.90 V	45.59 V	45.72 V	43.00 V	45.72 V
Short circuit current (Isc)	13.72 A	11.07 A	16.60 A	13.79 A	11.12 A	16.68 A	12.97 A	11.18 A	16.77 A	13.93 A	11.23 A	16.85 A	14.01 A	11.30 A	16.95 A
Bifaciality Factor	80% ± 10%														
Power tolerance	0→+5 W														
Module efficiency	20.42%			20.64%			20.85%			21.06%			21.27%		

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 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: 2124*1125*1259mm)

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

Engineering Drawings

