

# 530-550W

M10 / 182 mm Cell - 144 Half-cells



## KEY FEATURES



Gallium-doped Technology



Lower LCOE and BOS



Less Hot Spot Shading effects



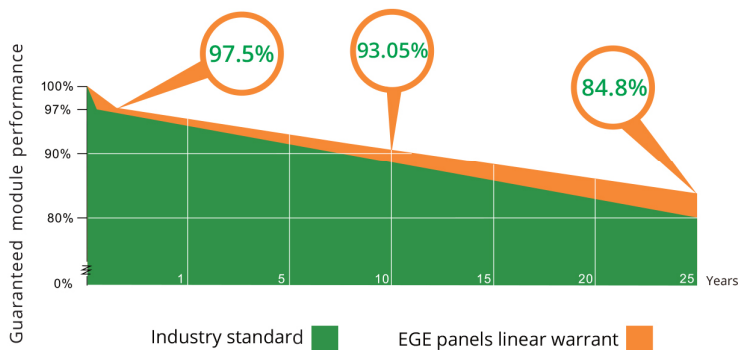
Anti PID/ Low LID protection



Lower temperature coefficient

## LINEAR PERFORMANCE WARRANTY

12-Year Product Warranty · 25-Year Linear Power Warranty



**144 Half-cells(10BB)**

Monocrystalline Module



**21.28%**

Maximum Efficiency



**0~+5W**

Positive Power Tolerance



**GRADE A**

Cells Guaranteed

## COMPREHENSIVE CERTIFICATES

IEC 61215/ IEC 61730 / IEC 61701 / IEC 62716

ISO 9001 : Quality Management Systems



**HAI-TEC**

HAI-TEC GmbH, Postfach 1201, 53402 Remagen, GERMANY, Fax: +49-02636-9649586, E:sales.haitec@gmail.com, www.hai-tec.eu

Solar Power Plants

HAI-TEC GmbH reserves the right to adjust specification above without notice.

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## ELECTRICAL DATA AT STC\*

Power output (Pmax)	530 W	535 W	540 W	545 W	550 W
Power tolerance	0~+5 W	0~+5 W	0~+5 W	0~+5 W	0~+5 W
Module efficiency	20.51 %	20.70 %	20.89 %	21.09 %	21.28 %
Maximum power voltage (Vmp)	40.58 V	40.68 V	40.79 V	40.89 V	40.98 V
Maximum power current (Imp)	13.06 A	13.15 A	13.24 A	13.33 A	13.42 A
Open circuit voltage (Voc)	49.29 V	49.39 V	49.49 V	49.59 V	49.68 V
Short circuit current (Isc)	13.64 A	13.73 A	13.83 A	13.92 A	14.01 A

\*Standard Test Conditions (STC) : Irradiance : 1,000 W / m<sup>2</sup> • Cell temperature : 25°C • AM: 1.5

## ELECTRICAL DATA AT NOCT\*\*

Power output (Pmax)	395.18 W	398.91 W	402.64 W	406.37 W	410.10 W
Maximum power voltage (Vmp)	38.05 V	38.14 V	38.24 V	38.33 V	38.42 V </td
Maximum power current (Imp)	10.37 A	10.44 A	10.52 A	10.59 A	10.66 A
Open circuit voltage (Voc)	45.71 V	45.80 V	45.90 V	45.99 V	46.07 V
Short circuit current (Isc)	11.09 A	11.16 A	11.24 A	11.32 A	11.39 A

\*\*Nominal Operating Cell Temperature (NOCT) : Irradiance: 800 W / m<sup>2</sup> • Environment temperature : 20°C • AM : 1.5 • Wind speed : 1 m/s

## MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline (182x91 mm)
Number of cells	144
Dimensions	2,279x1,134x35mm (1.5mm Cell Gap)
Weight	29 kg
Glass	3.2 mm Tempered glass, High Transmission (>94%), Anti-Reflective Coating
Frame	Anodized aluminium alloy
Junction box	IP68 rated (3 by pass diodes)
Cable	4.0mm <sup>2</sup> ; 300mm(+) / 300mm(-) ; Length can be customized
Connector	MC4 or MC4 compatible
Max front load (e.g.: snow)	5,400 Pa
Max back load (e.g.: wind)	2,400 Pa

## TEMPERATURE CHARACTERISTICS

NOCT	45°C ±2 °C
Temperature coefficient of Pmax	-0.35%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of Isc	+0.048%/°C

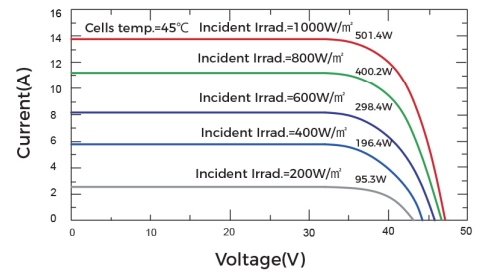
## MAXIMUM RATINGS

Operating temperature range	-40 °C ~+85 °C
Maximum system voltage	1,500 DC (IEC)
Max series fuse rating	25 A

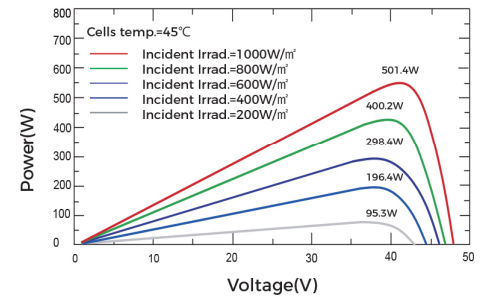
## PACKAGING (2,279x1,134x35mm)

Type	Quantity	Weight
Per Pallet	31 pcs	940 kg
40ft HQ Container	620 pcs	18.80 t

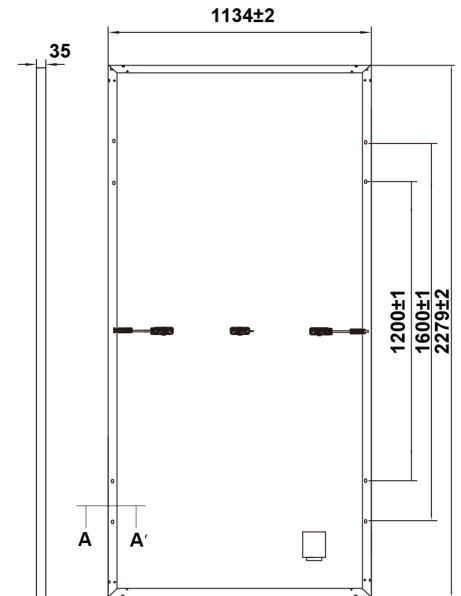
## PV MODULE : EGE-540W-144M(M10)



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## Dimension of PV Module (mm)



## Frame Cross Section A-A

