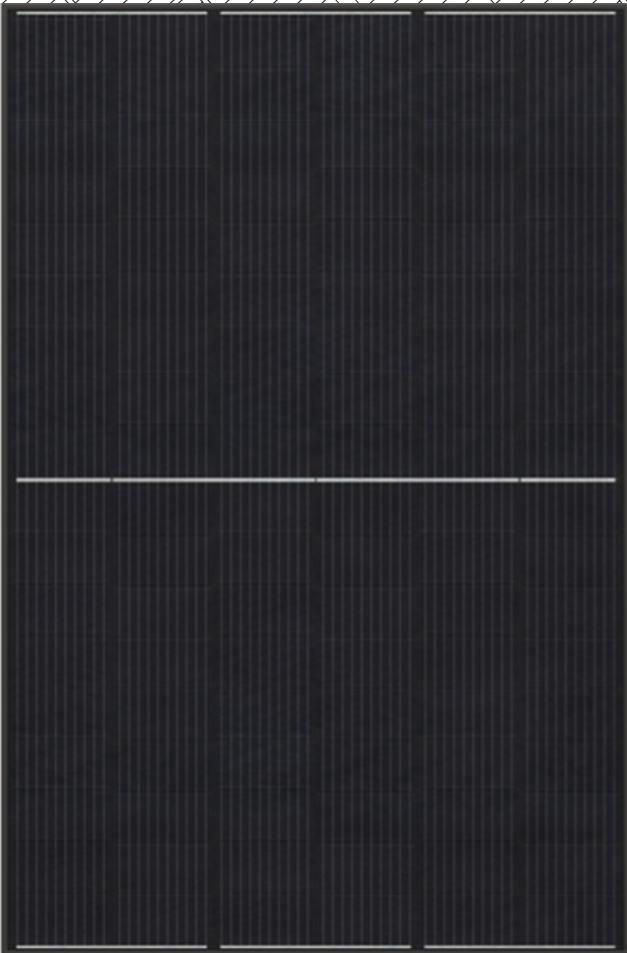


# HET-400-420M8S54AH

Half Cut Solar Cell 182\*91mm **PERC<sup>G4</sup>**  
Monocrystalline Solar Module



<b>108</b> cells Monocrystalline	<b>400-420</b> w Output Range	<b>21.51%</b> Max Efficiency	<b>0~5</b> w Output Guarantee
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**Half-cut cell design brings higher efficiency**


  - Optimized power output under inter-row shading conditions
  - Low thermal coefficients for higher energy yield at elevated operating temperatures
  - Reduced interconnection losses
- 

**10Bus-Bar technology decreases the distance between bus bars and finger grid line which is benefit to power increase.**
- 

**Excellent PID resistance**  
Excellent low irradiance performance
- 

**Higher lifetime Power Yield**  
1% first year degradation, 0.55% linear degradation.
- 

**Dual stage 100% EL inspection warranting defect-free product.**
- 

**Warranted reliability and stringent quality assurances well beyond certified requirements.**
- 

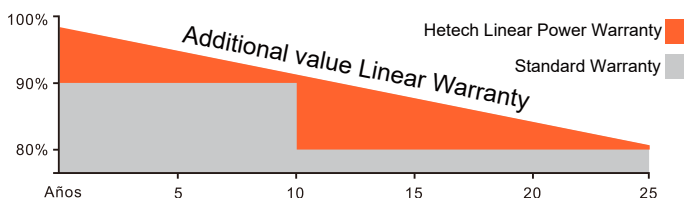
**Certified to withstand severe environmental conditions**

  - Anti-reflective & anti-soiling surface minimise power loss from dirt and dust
  - Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments
  - Excellent mechanical load 2400Pa & snow load 5400Pa resistance

**12** YEARS  
Product

**25** YEARS  
Product Power

## LINEAR PERFORMANCE WARRANTY



ISO9001  
ISO14001  
OHSAS18001  
IEC TS 62941



BIS

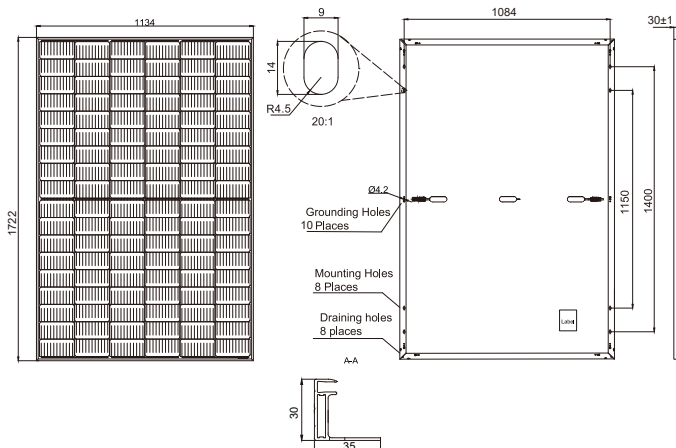


# HET-400-420M8S54AH PERC<sup>G4</sup>

Units:mm

## MECHANICAL CHARACTERISTICS

Dimensions	1722x1134x30mm(LxWx H)
Weight	20.5kg
Front Glass	3.2mm high transmisson tempered glass
Encapsulation	EVA
Cells	108pcs 182x91mm Monocrystalline solar cells
Backsheet	Composite film
Frame	Anodized aluminum profile
Junction Box	Rated current:15A,IP67,TUV
Cable	Length Negative 400mm/Positive 300mm
Connector	Compatible with MC4



## ELECTRICAL CHARACTERISTICS AT STANDARD TEST CONDITIONS(STC)

Module Type :	HET-400M8S54AH	HET-405M8S54AH	HET-410M8S54AH	HET-415M8S54AH	HET-420M8S54AH
Max Power-Pm [W]	400	405	410	415	420
Open Circuit Voltage-Voc[V]	37.07	37.23	37.32	37.45	37.58
Short Circuit Current-Isc[A]	13.79	13.87	13.95	14.02	14.10
Max Power Voltage-Vmp[V]	31.01	31.21	31.45	31.61	31.80
Max Power Current-Imp[A]	12.90	12.98	13.04	13.13	13.21
Module Efficiency-p[%]	20.49	20.75	21.00	21.26	21.51

## ELECTRICAL CHARACTERISTICS AT NOCT

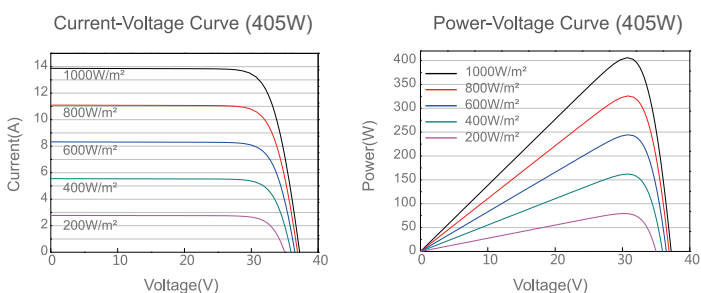
Module Type :	HET-400M8S54AH	HET-405M8S54AH	HET-410M8S54AH	HET-415M8S54AH	HET-420M8S54AH
Max Power-Pm [W]	302	306	310	314	318
Open Circuit Voltage-Voc[V]	34.88	35.12	35.23	35.37	35.50
Short Circuit Current-Isc[A]	11.03	11.10	11.16	11.22	11.29
Max Power Voltage-Vmp[V]	29.26	29.47	29.72	29.89	30.09
Max Power Current-Imp[A]	10.32	10.38	10.43	10.50	10.57

Note:1.Standard Test Conditons[STC]:irradiance 1000W/M2 ; >AM1.5;ambient temperature 25°C according to EN 60904-3;

2.Normal Operating Cell Temperature[NOCT]:irradiance 800W/m2 ; wind speed 1m/s , cell temperature 45 °C ; ambient temperature 20°C.

3.Tolerance Of Pm:0~ + 5%,measuring uncertainty of power:±3%.performance deviation of Voc[V],Isc[A],Vm[V] and Im[A]:±5%.

## IV CURVE



## WORKING CONFIGURATION

NOCT	45°C ( ±2°C )
Temperture coefficient of Voc	-0.29%/°C
Temperture coefficient of Isc	0.033%/°C
Temperture coefficient of Pm	-0.39%/°C
Max system voltage[V]	DC1000y(IEC),DC1000 (UL)
Series fuse rating [A]	20
Max surface load capacity[Pa]	5400
Temperture range[°C]	-40 to +85
Withstanding hail	Max diameter of 45mm/30.7m.s-1

## PACKAGING CONFIGURATION

Container type	40HQ
No. of modules per container	962
No. of modules per pallet	36
No. of pallets per container	26
Packaging box size (LxWxH)[mm]	1750x1120x1260
Box gross weight[kg]	760

