

Hitouch 5

HN18-54HT

395-415W

BIFACIAL

21.25%

Maximum Efficiency

15 YEARS

Product Warranty



Higher Power Output

Higher module conversion efficiency benefit from bigger wafer and half-cell structure.

MBB technology enhances current collection with lower series resistance.



Excellent Temperature Coefficient

Lower operating temperature and temperature coefficient increases the power output



Long-Term Reliability

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal).

Excellent anti-PID performance to guarantee a better sustainability in harsh environment.

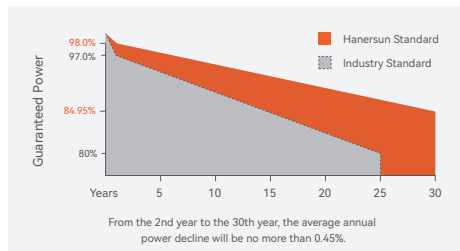


Lower Hot Spot and Crack Risk

Reduce hot-spot risk with optimized electrical design and lower operating current.

Reduce crack risk by MBB solar cell design.

Power Warranty



15-year product warranty



30-year linear power output warranty

Insurance



Munich RE



太平洋保險 CPIC

Certificates



About Hanersun

Hanersun is a world leading solar module manufacturer and comprehensive energy solution provider. We provide customers with cutting edge solar modules, and services for the entire project life cycle.

Electrical Characteristics

| Module Type | HN18-54HT395W | | HN18-54HT400W | | HN18-54HT405W | | HN18-54HT410W | | HN18-54HT415W | |
|-----------------------------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|
| | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum Power (Pmax) | 395 | 290 | 400 | 295 | 405 | 298 | 410 | 302 | 415 | 307 |
| Maximum Power Voltage (Vmp) | 30.63 | 28.58 | 30.82 | 28.78 | 31.02 | 28.98 | 31.22 | 29.18 | 31.43 | 29.28 |
| Maximum Power Current (Imp) | 12.90 | 10.18 | 12.94 | 10.25 | 13.00 | 10.28 | 13.06 | 10.35 | 13.21 | 10.50 |
| Open-circuit Voltage (Voc) | 36.74 | 34.29 | 36.94 | 34.49 | 37.14 | 34.69 | 37.34 | 34.89 | 37.55 | 35.10 |
| Short-circuit Current (Isc) | 13.55 | 10.65 | 13.60 | 10.70 | 13.65 | 10.75 | 13.70 | 10.80 | 13.85 | 11.16 |
| Module Efficiency(%) | 20.23% | | 20.48% | | 20.74% | | 20.99% | | 21.25% | |

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.
*Measuring tolerance: 0 ~ +5W

NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

Electrical Characteristics with 10% Solar Irradiation Ratio

| Module Type | HN18-54HT395W | HN18-54HT400W | HN18-54HT405W | HN18-54HT410W | HN18-54HT415W |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax) | 435 | 440 | 445 | 450 | 455 |
| Maximum Power Voltage (Vmp) | 30.62 | 30.82 | 31.02 | 31.22 | 31.43 |
| Maximum Power Current (Imp) | 14.20 | 14.27 | 14.34 | 14.44 | 14.48 |
| Open-circuit Voltage (Voc) | 36.74 | 36.94 | 37.14 | 37.34 | 37.55 |
| Short-circuit Current (Isc) | 14.95 | 15.00 | 15.05 | 15.10 | 15.18 |

Mechanical Parameters

| | |
|-------------------|--------------------------------|
| Solar Cells | Monocrystalline (182mm) |
| Module Dimensions | 1722*1134*30mm |
| Glass | 2mm-2mm |
| Frame | Anodized Aluminium Alloy |
| Output Cable | 4.0mm ² , 300/300mm |

| | |
|----------------------|--------------------|
| No. of Cells | 108 [2 x (9 x 6)] |
| Weight | 24.5kg |
| Encapsulant Material | EVA/POE |
| J-Box | IP68 |
| Connector | MC4 Compatible |

Temperature Ratings

| | |
|---|------------|
| NMOT (Nominal operating cell temperature) | 45°C(±2°C) |
| Temperature Coefficient of Pmax | -0.350%/°C |
| Temperature Coefficient of Voc | -0.275%/°C |
| Temperature Coefficient of Isc | +0.045%/°C |

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

Operating Parameters

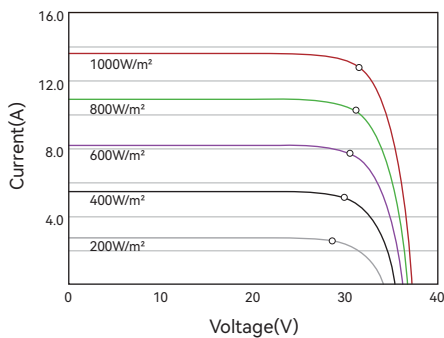
| | |
|----------------------------|----------------|
| Operational Temperature | -40°C~+85°C |
| Maximum System Voltage | 1500V DC (IEC) |
| Maximum Series Fuse Rating | 30A |
| Bifacility | 75%-80% |

Packaging

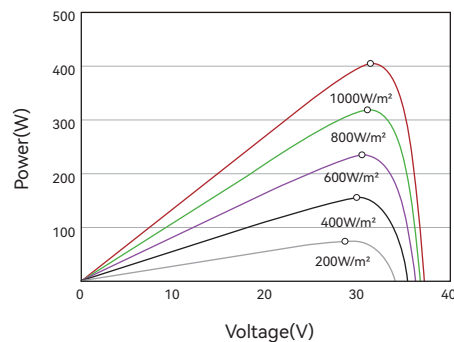
Pcs per Pallet: 36

Pcs per 40' HC: 936

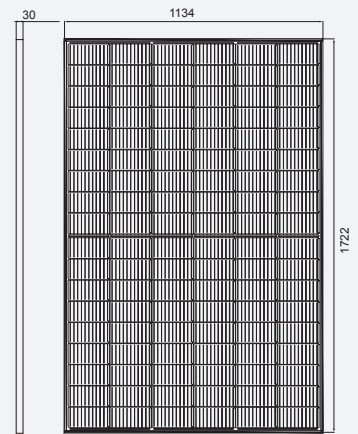
I-V Curves of PV Module (405W)



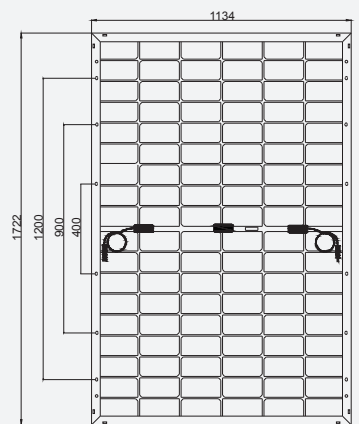
P-V Curves of PV Module (405W)



Dimensions (Unit: mm)



Front View



Back View