



Hitouch 5

CP18-72HT

530-550W

BIFACIAL

High Efficiency Module

21.23%

Maximum Efficiency

12 YEARS

Product Warranty



Higher Power Output

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

Technology enhance stronger 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.

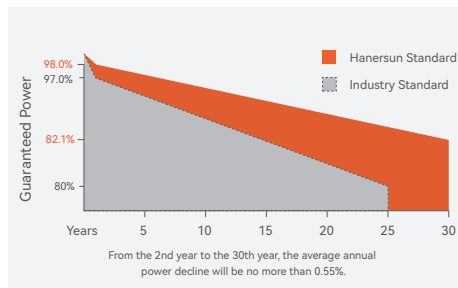


Lower Hot Spot and Crack Risk

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

Reduce crack risk by MBB solar cell design.

Power Warranty



12-year product warranty



30-year linear power output warranty

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 | CP18-72HT530W | | CP18-72HT535W | | CP18-72HT540W | | CP18-72HT545W | | CP18-72HT550W | |
|-----------------------------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|
| | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum Power (Pmax) | 530 | 401 | 535 | 404 | 540 | 408 | 545 | 412 | 550 | 416 |
| Maximum Power Voltage (Vmp) | 41.31 | 38.57 | 41.47 | 38.78 | 41.64 | 38.89 | 41.80 | 39.20 | 41.96 | 39.39 |
| Maximum Power Current (Imp) | 12.83 | 10.39 | 12.90 | 10.43 | 12.97 | 10.47 | 13.04 | 10.51 | 13.11 | 10.55 |
| Open-circuit Voltage (Voc) | 49.30 | 46.18 | 49.45 | 46.31 | 49.60 | 46.34 | 49.75 | 46.55 | 49.90 | 46.66 |
| Short-circuit Current (Isc) | 13.72 | 11.01 | 13.79 | 11.05 | 13.86 | 11.09 | 13.93 | 11.13 | 14.00 | 11.18 |
| Module Efficiency(%) | 20.45% | | 20.65% | | 20.84% | | 21.03% | | 21.23% | |

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 | CP18-72HT530W | CP18-72HT535W | CP18-72HT540W | CP18-72HT545W | CP18-72HT550W |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax) | 567 | 572 | 578 | 583 | 589 |
| Maximum Power Voltage (Vmp) | 41.77 | 41.99 | 42.24 | 42.43 | 42.67 |
| Maximum Power Current (Imp) | 13.58 | 13.63 | 13.69 | 13.74 | 13.79 |
| Open-circuit Voltage (Voc) | 49.67 | 49.80 | 49.93 | 50.03 | 50.21 |
| Short-circuit Current (Isc) | 14.39 | 14.45 | 14.50 | 14.56 | 14.63 |

Mechanical Parameters

| | |
|-------------------|--------------------------------|
| Solar Cells | Monocrystalline (182mm) |
| Module Dimensions | 2285*1134*30mm |
| Glass | 2mm-2mm |
| Frame | Anodized Aluminium Alloy |
| Output Cable | 4.0mm ² , 300/300mm |

| | |
|----------------------|--------------------|
| No. of Cells | 144 [2 x (12 x 6)] |
| Weight | 31.5kg |
| 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

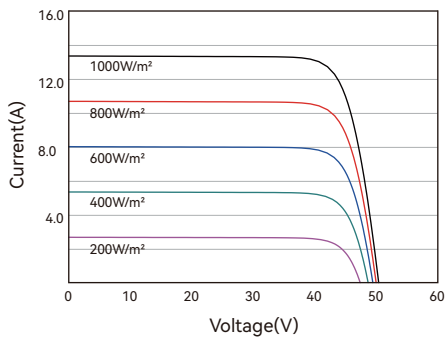
| | |
|----------------------------|----------------|
| Operational Temperature | -40°C~+85°C |
| Maximum System Voltage | 1500V DC (IEC) |
| Maximum Series Fuse Rating | 30A |
| Bifaciality | 80% |

Packaging

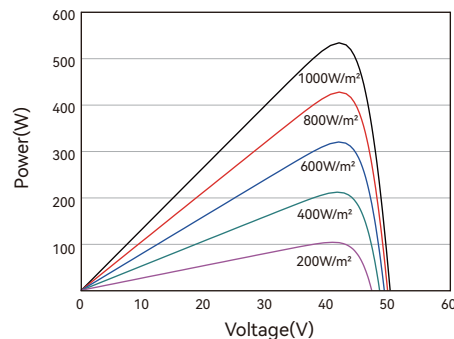
Pcs per Pallet: 36

Pcs per 40' HC: 720

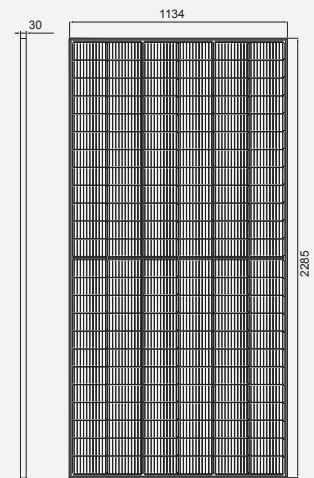
I-V Curves of PV Module (535W)



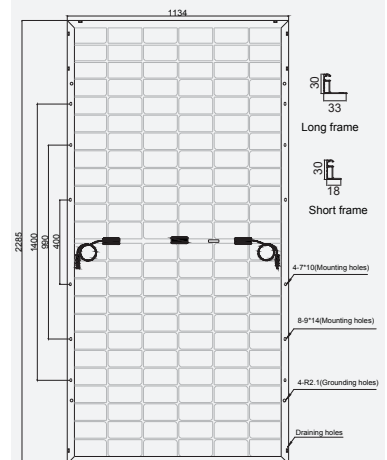
P-V Curves of PV Module (535W)



Dimensions (Unit: mm)



Front View



Back View