

Hitouch 5

CP18-60HT

435-455W

BIFACIAL

High Efficiency Module

21.00%

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.

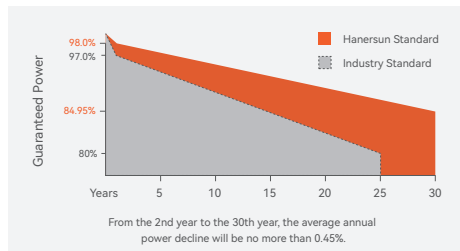


Lower Hot Spot and Crack Risk

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



太平洋保险 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	CP18-60HT435W		CP18-60HT440W		CP18-60HT445W		CP18-60HT450W		CP18-60HT455W	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	435	329	440	333	445	336	450	340	455	345
Maximum Power Voltage (Vmp)	34.64	32.25	34.79	32.46	34.91	32.56	35.05	32.76	35.15	32.95
Maximum Power Current (Imp)	12.55	10.20	12.65	10.26	12.75	10.32	12.85	10.38	12.95	10.47
Open-circuit Voltage (Voc)	41.20	38.34	41.40	38.45	41.50	38.57	41.60	38.68	41.70	38.81
Short-circuit Current (Isc)	13.45	10.90	13.57	10.97	13.68	11.03	13.78	11.10	13.88	11.15
Module Efficiency(%)	20.08%		20.31%		20.54%		20.77%		21.00%	

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	CP18-60HT435W	CP18-60HT440W	CP18-60HT445W	CP18-60HT450W	CP18-60HT455W
Maximum Power (Pmax)	473	479	484	490	495
Maximum Power Voltage (Vmp)	34.59	34.76	34.90	35.05	35.16
Maximum Power Current (Imp)	13.68	13.77	13.87	13.98	14.08
Open-circuit Voltage (Voc)	41.20	41.40	41.50	41.60	41.70
Short-circuit Current (Isc)	14.63	14.76	14.85	14.97	15.09

Mechanical Parameters

Solar Cells	Monocrystalline (182mm)
Module Dimensions	1910*1134*30mm
Glass	2mm-2mm
Frame	Anodized Aluminium Alloy
Output Cable	4.0mm ² , 300/300mm

No. of Cells	120 [2 x (10 x 6)]
Weight	26.5kg
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

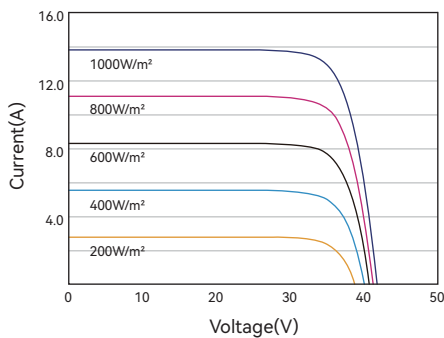
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Bifaciality	80%

Packaging

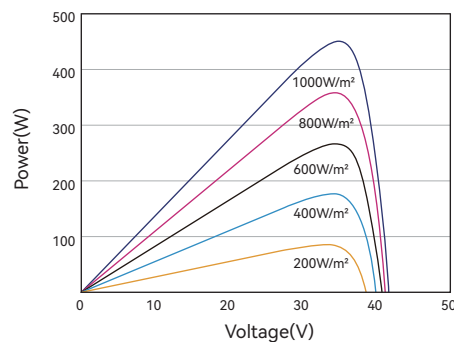
Pcs per Pallet: 36

Pcs per 40' HC: 864

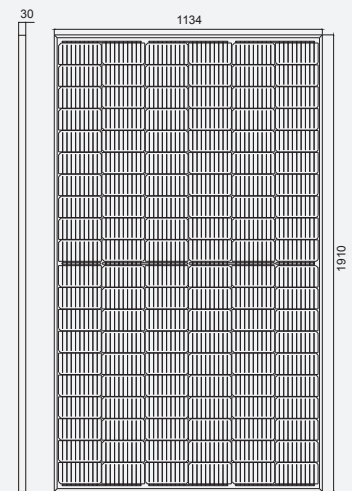
I-V Curves of PV Module (450W)



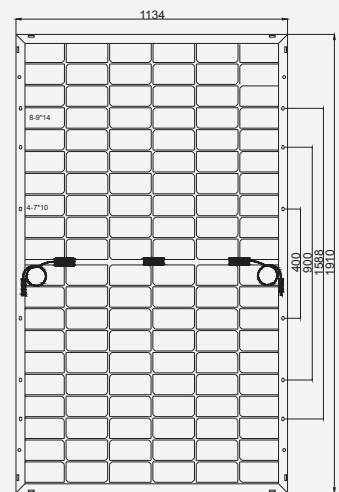
P-V Curves of PV Module (450W)



Dimensions (Unit: mm)



Front View



Back View