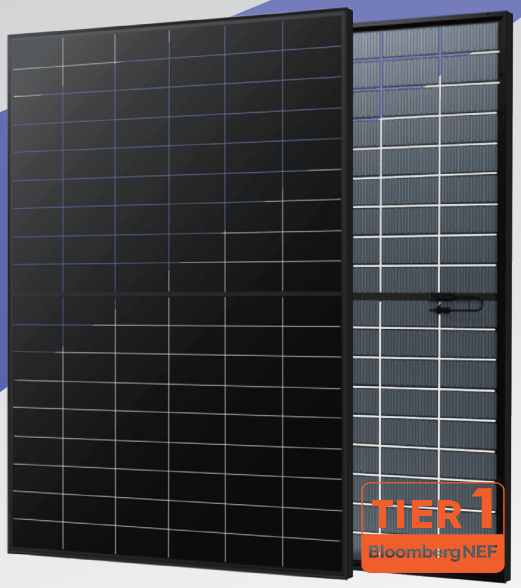
HBC

HANERSUN



Hitouch 5B

HN18RB-54HT

475-500W

BIFACIAL
Transparent Black Module

24.5%
Maximum Efficiency

Higher Power Output

Higher module conversion efficiency benefit from all back contact structure, realizing the maximum utilization of the incident photon.

Simple and Aesthetic Appearance

Due to the glossy front of the cells, the module embodies a more modern aesthetic.

Long-Term Reliability

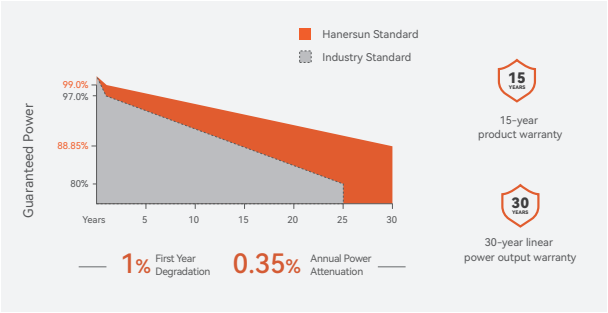
Module certified to withstand mechanical test load +5400/-2400Pa.

Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas.

Lower Hot Spot and Crack Risk

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

Power Warranty



Certificates

Warranty partner

Munich RE

About Hanersun

Hanersun is a world-leading clean energy company, focusing on R&D, manufacturing and distribution of solar module and energy storage system, as well as comprehensive clean energy solutions. Committed to high-efficiency technologies, the company is one of the first to launch PV modules of 600W+ and 700W+ in the industry.

Electrical Characteristics (STC)

Module Type	HN18RB-54HT475W	HN18RB-54HT480W	HN18RB-54HT485W	HN18RB-54HT490W	HN18RB-54HT495W	HN18RB-54HT500W
Maximum Power (Pmax)	475	480	485	490	495	500
Maximum Power Voltage (Vmp)	33.40	33.51	33.62	33.73	33.84	33.95
Maximum Power Current (Imp)	14.23	14.33	14.43	14.53	14.63	14.73
Open-circuit Voltage (Voc)	40.42	40.53	40.64	40.75	40.86	40.97
Short-circuit Current (Isc)	14.88	14.98	15.08	15.18	15.28	15.38
Module Efficiency(%)	23.3%	23.5%	23.8%	24.0%	24.3%	24.5%

STC: Irradiance 1000W/m², Cell Temperature 25℃, Air Mass AM1.5.

Power Tolerance: 0~+3%

Mechanical Parameters

Solar Cells	BC
No. of Cells	108 [2 x (9 x 6)]
Module Dimensions	1800*1134*30mm
Weight	23.5kg
Front Glass	2.0mm,High Transmission, AR Coated Heat Strengthened Glass
Back Glass	1.6mm,Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
J-Box	IP68
Cables (Including Connector)	4.0mm²,+400/-200mm (can be customized)
Connector	PV-ZH202B/MC4-EVO 2A/Others

Operating Parameters

Module [T98] Max	70℃
Operational Temperature	-40℃~+85℃
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Fire Class Rating	Class C

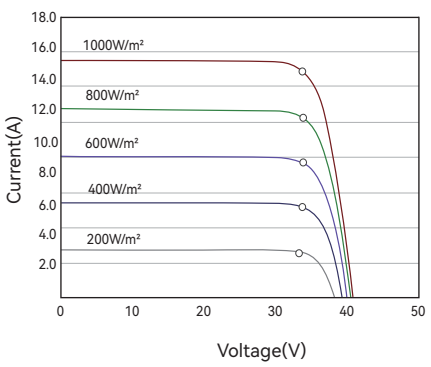
Temperature Ratings

Temperature Coefficient of Pmax	-0.26%/℃
Temperature Coefficient of Voc	-0.20%/℃
Temperature Coefficient of Isc	+0.05%/℃

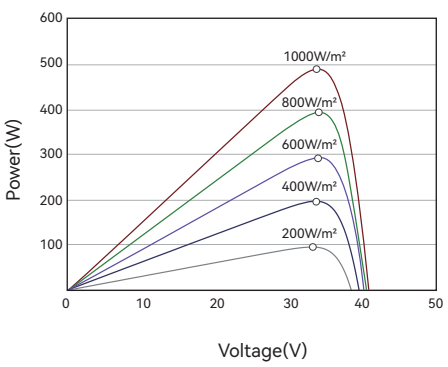
Packaging

Pcs per Pallet: 37	Pcs per 40' HC: 888

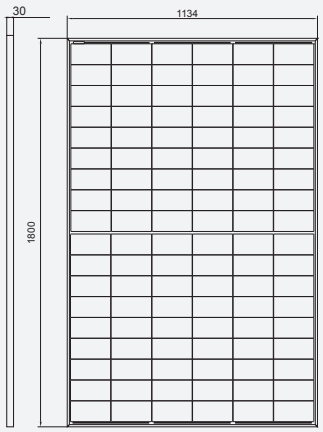
I-V Curves of PV Module (490W)



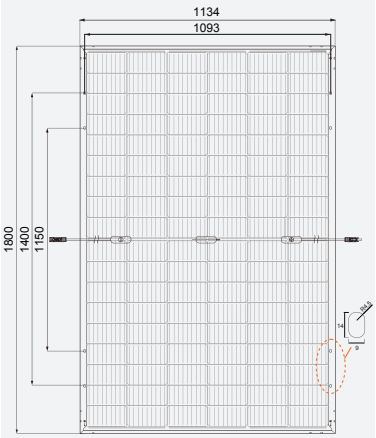
P-V Curves of PV Module (490W)

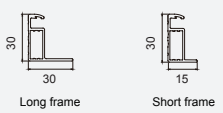


Dimensions (Unit: mm)



Front View





Back View

Tel: +86-25-52791766 Email: sales@hanersun.com Website: www.hanersun.com

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