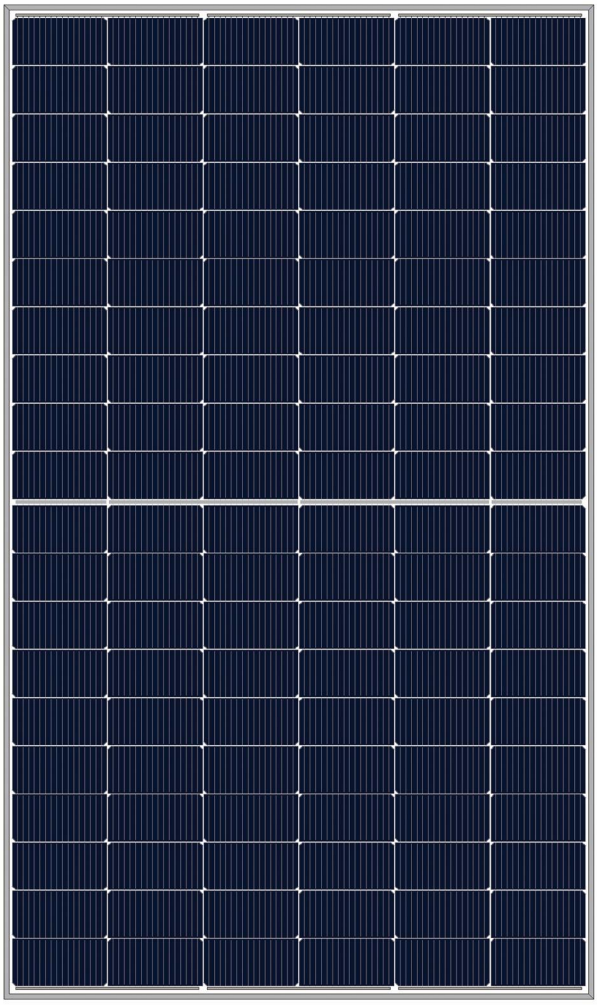
DAHAI SOLAR

N-type module

DHM60D30-TP

470-490W

High performance transparent N-type
double glass bifacial solar module

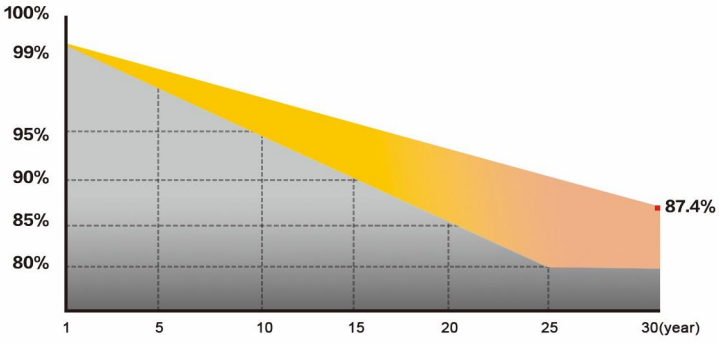


- High performance N-Type 16BB silicon cells, with a conversion efficiency upto 22.65%.
- Up to 20 % more power output by Bifacial-Technology
- Ultra-low attenuation rate, first year attenuation ≦1%, 2-30 years linear attenuation ≤ 0.4%
- Fully automatic production line with full quality inspection to ensure product assurance
- Components are resisting wind loads of 2400pa and snow loads of 5400pa

DAHAI SOLAR is a renewable energy enterprise founded in 2011 , with 5GW high efficiency solar module production and 10GW silicon production capacity. Adhering to the brand concept of "new energy for a new world", Dahai solar has always been committed to doing a stand out in the photovoltaic industry, transforming light with ingenuity and provide green energy to everybody.

30 YEARS — 30 YEAR LINEARITY POWER OUTPUT WARRANTY

25 YEARS — 25 YEARS OF EXCELLENT PRODUCTS MATERIAL AND PROCESS WARRANTY



The power attenuation shall not exceed 1% in the first year and 0.4% in the following years.

CQC TUV CE MCS UKCA
IEC 61215, IEC 61730
ISO 9001:Quality Management System
ISO 14001:Environmental Management System
ISO 45001:Occupational Health And Safety Management System

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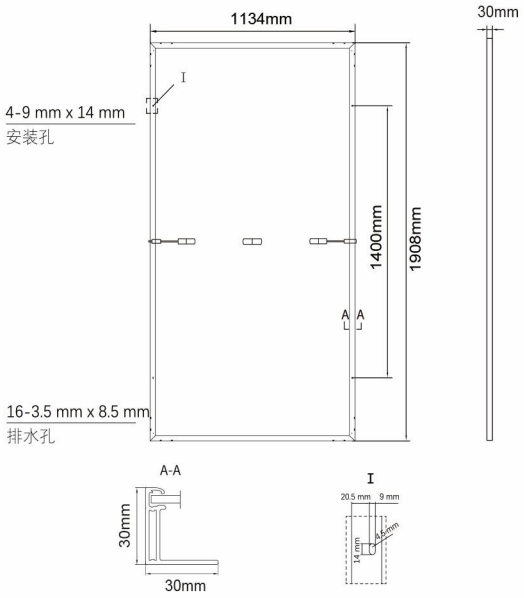
DAHAI SOLAR

DHM60D30-TP 470-490W

Maximum efficiency	Power tolerance	Highest component conversion efficiency	First year attenuation	Decay over the years
490W	0~+5W	22.65%	≤1.0%	≤0.4%

MECHANICAL PROPERTIES

Battery type	Monocrystalline-N-type
Component weight	26kg
Component Size	1908×1134×30mm
Number of Cells	120(6x20)
Cable cross-sectional area	4mm²
Junction Box	IP68, 3 diodes
Connector	MC4-EVO2
Packaging information	36 pieces/pallet 864 pieces /40 'container



WORKING PARAMETERS

Maximum system voltage	1500V (TUV)
Operating temperature	-40℃~+85℃
Maximum fuse current rating	30A
Maximum static load, front	5400pa
Maximum static load,back side	2400pa
nominal battery operating temperature	45±2℃
Application Level	classA

TEMPERATURE CHARACTERISTICS

Power	-0.350%/℃
Open circuit voltage	-0.274%/℃
Short-circuit current	0.044%/℃

ELECTRICAL PERFORMANCE PARAMETERS UNDER STC

Modle	DHM60D30 -470/TP	DHM60D30 -475/TP	DHM60D30 -480/TP	DHM60D30 -485/TP	DHM60D30 -490/TP
Maximum power (W)	470	475	480	485	490
Voltage at maximum power point (VMP/V)	37.55	37.85	38.15	38.45	38.75
Current at maximum power point (IMP/A)	12.52	12.55	12.58	12.61	12.65
Open circuit voltage (VOC/V)	42.30	42.50	42.70	42.90	43.10
Short circuit current (ISC/A)	13.15	13.20	13.25	13.30	13.35
Component efficiency [%]	21.72%	21.95%	22.18%	22.42%	22.65%
Power tolerance (W)	0~+5				
Standard test environment	Irradiance 1000W/㎡, cell temperature 25℃, spectrum AM1.5				

Note:Due to continuous innovation, research and product upgrading, the parameters in this specification are not just a component, but can only be used for comparison between different types.

BIFACIAL OUTPUT - BACKSIDE POWER GAIN

Modle	DHM60D30 -470/TP	DHM60D30 -475/TP	DHM60D30 -480/TP	DHM60D30 -485/TP	DHM60D30 -490/TP
5% Power output	494	499	504	509	515
Module Effiency	22.81%	23.05%	23.29%	23.54%	23.78%
10% Power output	517	523	528	534	539
Module Effiency	23.89%	24.15%	24.40%	24.66%	24.91%
20% Power output	564	570	576	582	588
	26.07%	26.34%	26.62%	26.90%	27.18%