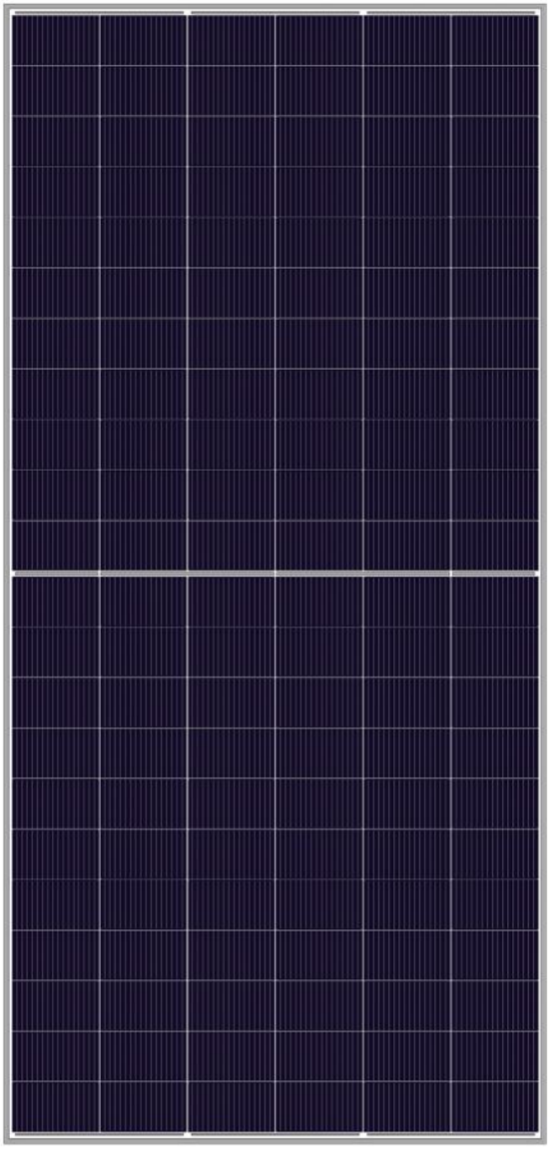
DAHAI SOLAR

TOPCon module

DHM66D50-TP

685-710W

Ultra-high power 210 N-TOPCon
Double-sided double-glass solar module

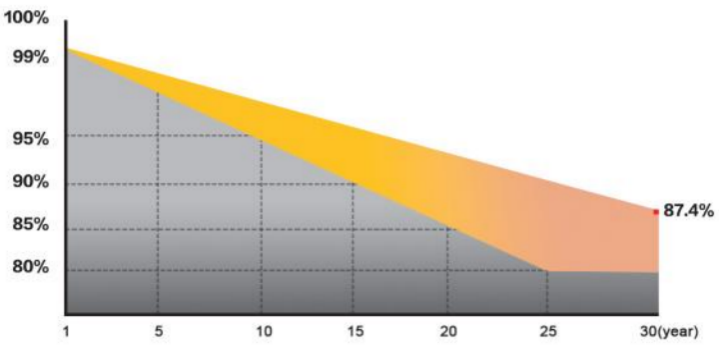


- High performance 210+N-Type TOPCon 16BB silicon cells, with a conversion efficiency upto 22.86%.
- Excellent low-light power generation performance, dual-glass back surface increases power output by 20%.
- 18 main grid cells for more stable power output, **dual-core characteristics effectively resist shadow shading.**
- Reduced internal electrical performance loss, low operating temperature of components, strong resistance to hot spot.
- Fully automatic production line with full quality inspection to ensure product assurance.

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

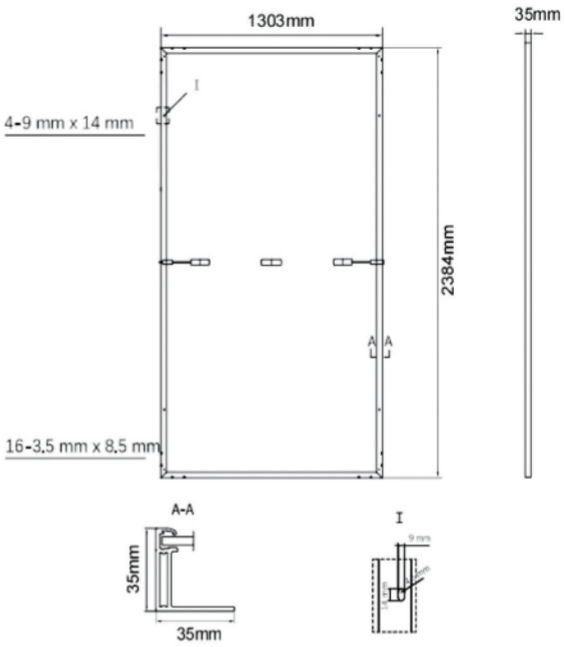
DAHAI SOLAR

DHM66D50-TP 685-710W

Power range	Power tolerance	Highest component conversion efficiency	First year attenuation	Decay over the years
685~710W	0~+5W	22.86%	≤1.0%	≤0.4%

MECHANICAL PROPERTIES

Battery type	210 N-TypeTOPCon
Component weight	38kg
Component Size	2382×1303×35mm
Number of Cells	132(6x22)
Cable cross-sectional area	4mm²
Junction Box	IP68, 3 diodes
Connector	MC4-EVO2
Packaging information	31 pieces/pallet 558 pieces /40 'container



WORKING PARAMETERS

Maximum system voltage	1500V (TUV)
Operating temperature	-40℃~ +85℃
Maximum fuse current rating	35A
Maximum static load, front	5400pa
Maximum static load,back side	2400pa
nominal battery operating temperature	45±2℃
Application Level	classA

TEMPERATURE CHARACTERISTICS

Power	-0.30%/℃
Open circuit voltage	-0.25%/℃
Short-circuit current	0.04%/℃

ELECTRICAL PERFORMANCE PARAMETERS UNDER STC

Modle	DHM66D50 -685/TP	DHM66D50 -690/TP	DHM66D50 -695/TP	DHM66D50 -700/TP	DHM66D50 -705/TP	DHM66D50 -710/TP
Maximum power (W)	685	690	695	700	705	710
Voltage at maximum power point (VMP/V)	39.75	40.00	40.25	40.50	40.75	41.00
Current at maximum power point (IMP/A)	17.23	17.25	17.27	17.28	17.30	17.32
Open circuit voltage (VOC/V)	47.60	47.90	48.20	48.50	48.80	49.10
Short circuit current (ISC/A)	18.25	18.28	18.31	18.34	18.37	18.40
Component efficiency [%]	22.05%	22.21%	22.37%	22.53%	22.70%	22.86%
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	DHM66D50 -685/TP	DHM66D50 -690/TP	DHM66D50 -695/TP	DHM66D50 -700/TP	DHM66D50 -705/TP	DHM66D50 -710/TP
5% Power output	719	725	730	735	740	746
Module Effiency	23.15%	23.32%	23.49%	23.66%	23.83%	24.00%
10% Power output	754	759	765	770	776	781
Module Effiency	24.26%	24.43%	24.61%	24.79%	24.96%	25.14%
20% Power output	822	828	834	840	846	852
	26.46%	26.66%	26.85%	27.04%	27.23%	27.43%