

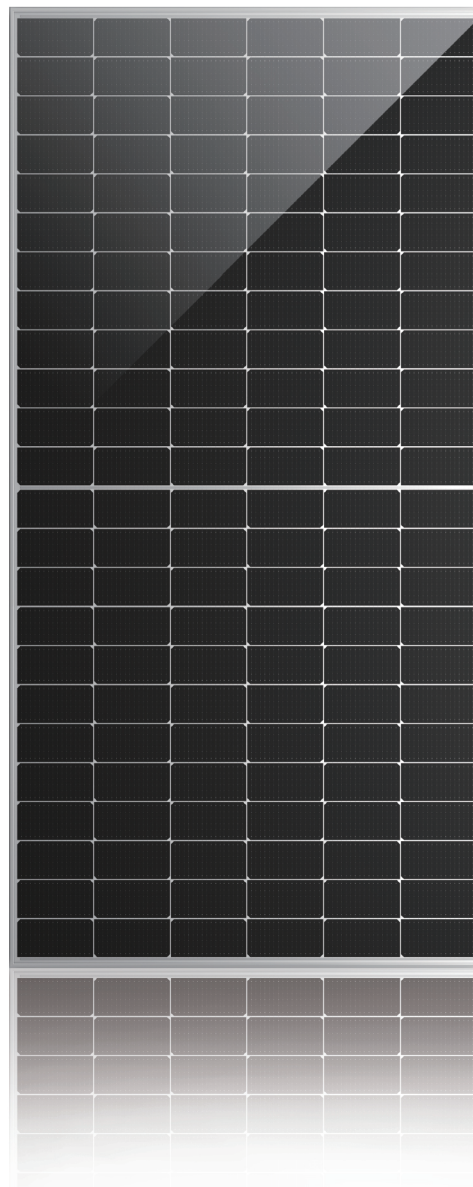
DHM72T31-TP

555-585W

High efficiency TOPCon module

- Using the latest TOPCon 16BB silicon cells, the output power reaches 585W with a conversion efficiency reaching 22.64%.
- The same surface area achieves a higher power generation efficiency when compared with standard modules
- Ultra-low attenuation rate, first year attenuation $\leq 1\%$, 2-30 years linear attenuation $\leq 0.4\%$
- Fully automatic production line with full quality inspection to ensure product assurance
- The Components are resisting wind loads of 2400pa and snow loads of 5400pa

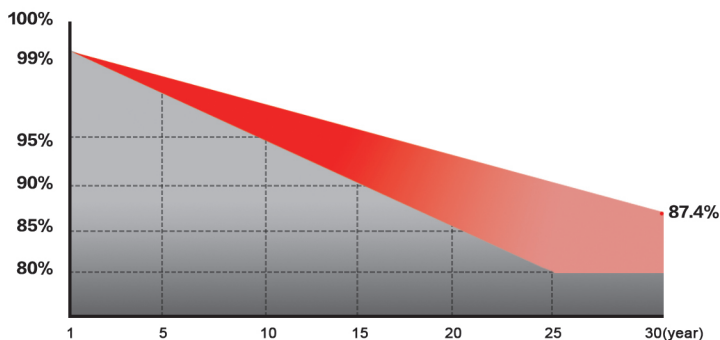
DAHAI SOLAR is a renewable energy enterprise founded in 2011, with 5GW high efficiency solar module production capacity, 10GW silicon production capacity. Adhering to the brand concept of "new energy, new world", Dahai solar has always been committed to doing a stand out in the photovoltaic industry,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

30 YEAR EXCESS LINEAR POWER OUTPUT WARRANTY



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

COMPLETE QUALITY MANAGEMENT SYSTEM AND PRODUCT CERTIFICATION



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

Sales:
 Email: sales@simaigroup.com
 Tel: +40736154601 / +40736667679

Office:
 Email: office@simaigroup.com
 Tel: +40755088512

Technical Support:
 Email: service@simaigroup.com
 Tel: +40736667763

Maximum efficiency

Power tolerance

Highest component conversion efficiency

First year attenuation

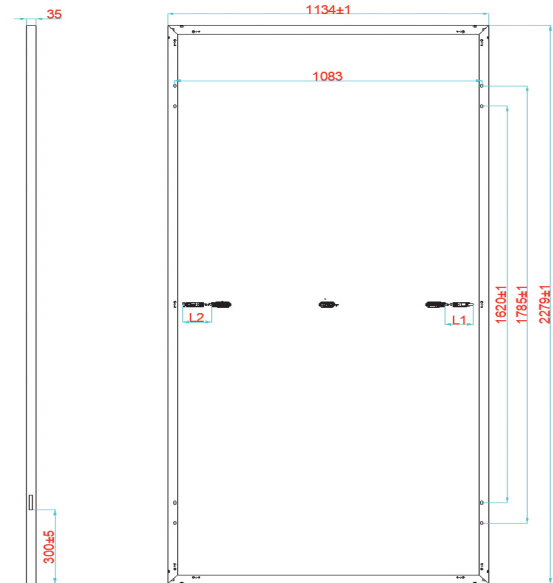
Decay over the years

585W
0~+5W
22.64%
≤1.0%
≤0.4%
MECHANICAL PROPERTIES

Battery type	Monocrystalline-TOPCon
Component weight	28kg
Component Size	2279×1134×35mm
Number of Cells	144(6x24)
Cable cross-sectional area	4mm ²
Junction Box	IP68, 3 diodes
Connector	MC4-EVO2
Packaging information	31 pieces/pallet 620 pieces /40 'container

WORKING PARAMETERS

Maximum system voltage	1500V DC
Operating temperature	-40°C~ +85°C
Maximum fuse current rating	25A
Maximum static load, front	5400pa
Maximum static load,back side	2400pa
nominal battery operating temperature	45±2°C
Application Level	classA


TEMPERATURE CHARACTERISTICS

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

ELECTRICAL PERFORMANCE PARAMETERS UNDER STC

Module	DHM72T31 -555/TP	DHM72T31 -560/TP	DHM72T31 -565/TP	DHM72T31 -570/TP	DHM72T31 -575/TP	DHM72T31 -580/TP	DHM72T31 -585/TP
Maximum power (W)	555	560	565	570	575	580	585
Voltage at maximum power point (VMP/V)	42.95	43.25	43.55	43.85	44.15	44.45	44.75
Current at maximum power point (IMP/A)	12.92	12.95	12.97	13.00	13.02	13.05	13.07
Open circuit voltage (VOC/V)	50.10	50.30	50.50	50.70	50.90	51.10	51.30
Short circuit current (ISC/A)	14.01	14.07	14.13	14.19	14.25	14.31	14.37
Component efficiency [%]	21.48%	21.67%	21.86%	22.06%	22.25%	22.44%	22.64%
Power tolerance (W)	0~+5						
Standard test environment	Irradiance 1000W/m ² , cell temperature 25°C, 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.

ELECTRICAL PERFORMANCE PARAMETERS UNDER NOCT

Module	DHM72T31 -555/TP	DHM72T31 -560/TP	DHM72T31 -565/TP	DHM72T31 -570/TP	DHM72T31 -575/TP	DHM72T31 -580/TP	DHM72T31 -585/TP
Maximum power (W)	413	417	420	424	428	432	435
Voltage at maximum power point (Vmp)[V]	39.49	39.79	40.09	40.39	40.69	40.99	41.29
Current at maximum power point (Imp)[A]	10.46	10.47	10.49	10.50	10.51	10.53	10.54
Open circuit voltage (Voc)[V]	46.75	46.95	47.15	47.35	47.55	47.75	47.95
Short circuit current (Isc)[A]	11.35	11.40	11.45	11.50	11.55	11.60	11.65
Nominal cell operating temperature(NOCT)	Irradiance800W/m ² , ambient temperature20°C, spectrum AM1.5G, wind speed 1m/s						