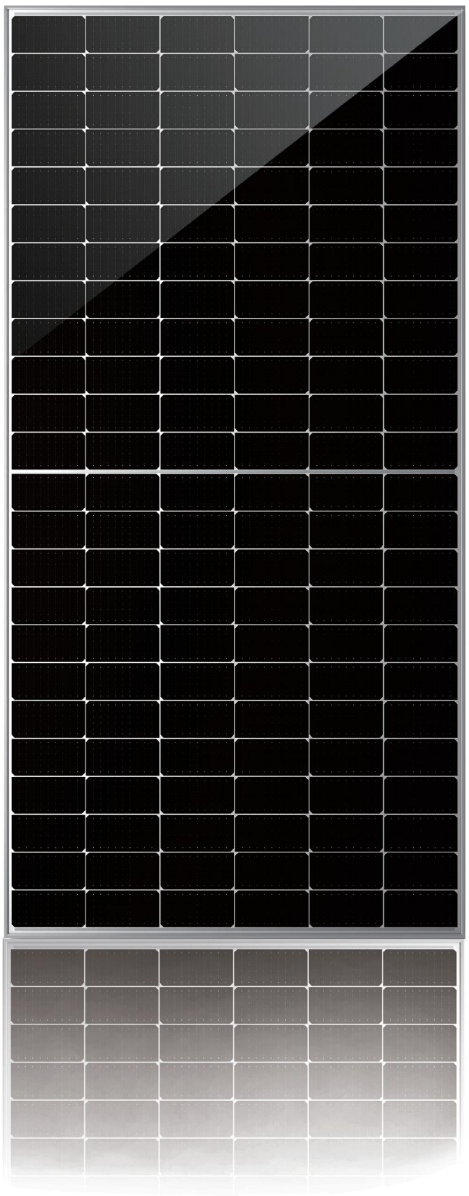
DAHAI SOLAR

Monocrystalline module

DHM72T31-MR

530-555W

High efficiency monocrystalline module



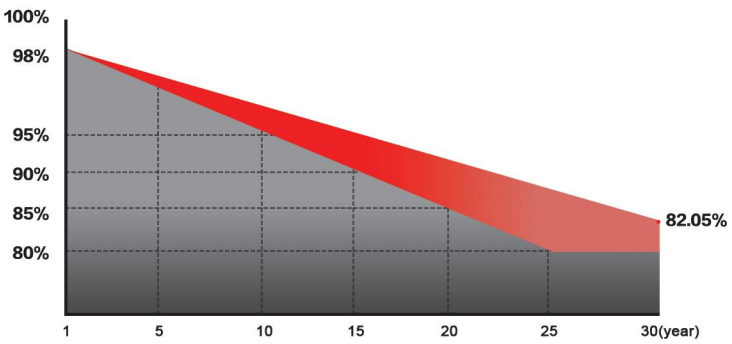
- Using 182 multi bus bar efficient monocrystalline silicon cells, the output power reaches 555W with a conversion efficiency reaching 21.48%!
- High power module designed for large scale solar power station project, striving for high efficiency
- The same surface area achieves a higher power generation efficiency when compared with standard modules
- 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 2% in the first year and 0.55% 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

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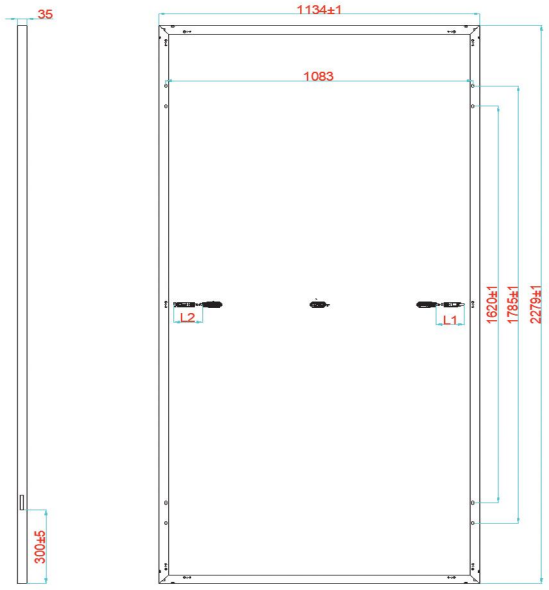
DAHAI SOLAR

DHM72T31-MR 530-555W

Maximum efficiency	Power tolerance	Highest component conversion efficiency	First year attenuation	Decay over the years
555W	0~+5W	21.48%	⩽2.0%	⩽0.55%

MECHANICAL PROPERTIES

Battery type	Monocrystalline
Component weight	28kg
Component Size	2279x1134x35mm
Number of Cells	144(6x24)
Cable cross-sectional area	4mm²
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℃~+85℃
Maximum fuse current rating	25A
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	DHM72T31 -530/MR	DHM72T31 -535/MR	DHM72T31 -540/MR	DHM72T31 -545/MR	DHM72T31 -550/MR	DHM72T31 -555/MR
Maximum power (W)	530	535	540	545	550	555
Voltage at maximum power point (VMP/V)	41.53	41.82	42.12	42.41	42.71	42.91
Current at maximum power point (IMP/A)	12.76	12.79	12.82	12.85	12.88	12.93
Open circuit voltage (VOC/V)	49.20	49.35	49.51	49.69	49.88	50.08
Short circuit current (ISC/A)	13.68	13.75	13.82	13.89	13.97	14.04
Component efficiency [%]	20.51%	20.70%	20.89%	21.09%	21.28%	21.48%
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.

ELECTRICAL PERFORMANCE PARAMETERS UNDER NOCT

Modle	DHM72T31 -530/MR	DHM72T31 -535/MR	DHM72T31 -540/MR	DHM72T31 -545/MR	DHM72T31 -550/MR	DHM72T31 -555/MR
Maximum power (W)	394	398	402	405	409	413
Voltage at maximum power point (Vmp)[V]	38.30	38.55	38.79	39.04	39.28	39.49
Current at maximum power point (Imp)[A]	10.30	10.33	10.36	10.39	10.42	10.46
Open circuit voltage (Voc)[V]	45.96	46.11	46.27	46.42	46.58	46.74
Short circuit current (Isc)[A]	11.01	11.08	11.14	11.20	11.27	11.34
Nominal cell operating temperature(NOCT)	Irradiance800W/㎡, ambient temperature20℃, spectrum AM1.5G, wind speed 1m/s					