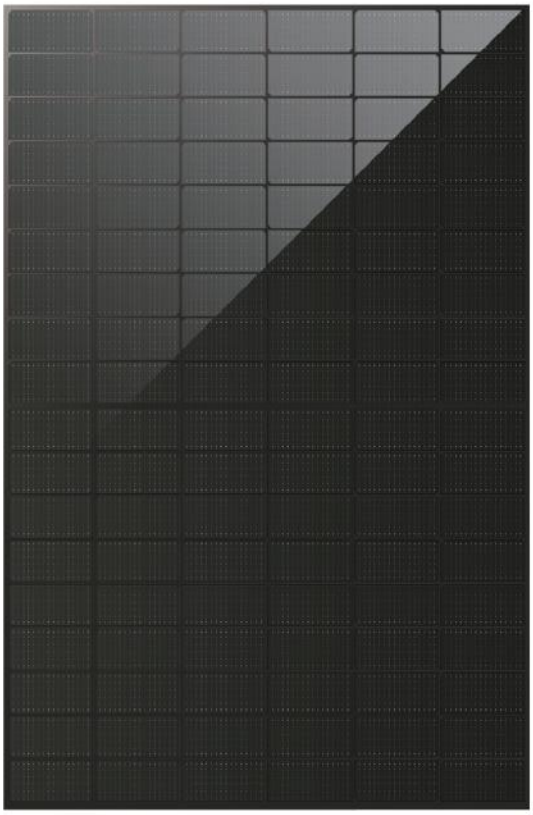
DAHAI SOLAR

TOPCon module

DHM54T35-TP

405-430W

All-black Aesthetic
TOPCon High-efficiency Photovoltaic Module



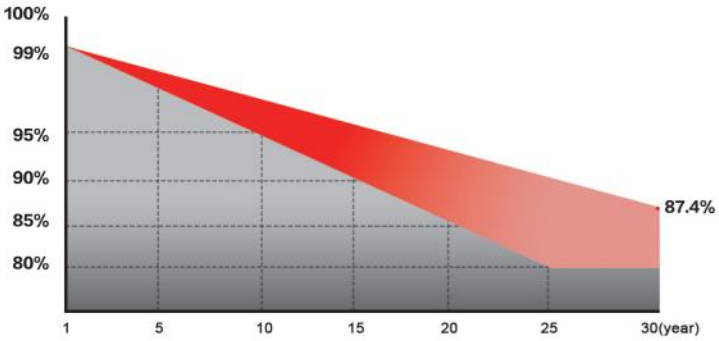
- Using the latest TOPCon 16BB silicon cells, the output power reaches 430W with a conversion efficiency reaching 22.02%.
- The same area of higher power, light weight, easy to install
- Ultra-low attenuation rate, first year attenuation ≦1%, 2-30 years linear attenuation ≤ 0.4%
- Fully automatic production 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 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

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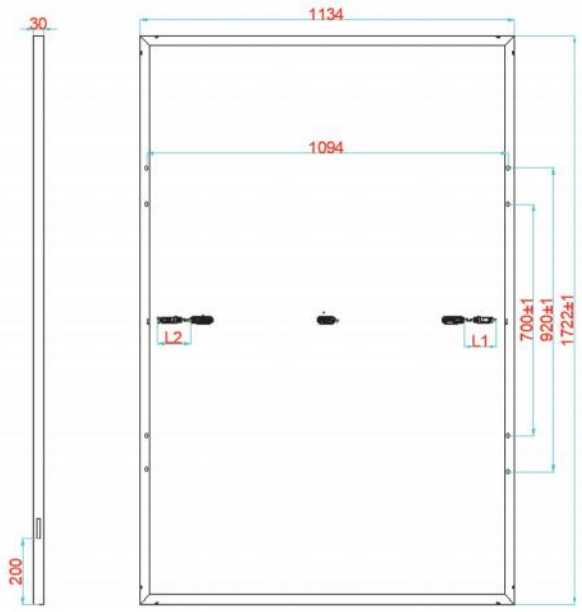
DHM54T35-TP 405-430W

Maximum efficiency	Power tolerance	Highest component conversion efficiency	First year attenuation	Decay over the years
430W	0~+5W	22.02%	≤1.0%	≤0.4%

MECHANICAL PROPERTIES

Battery type	Monocrystalline-TOPCon
Component weight	21.5kg
Component Size	1722×1134×30mm
Number of Cells	108 (6x18)
Cable cross-sectional area	4mm²
Junction Box	IP68, 3 diodes
Connector	MC4-EVO2
Packaging information	36 pieces/pallet 936 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	DHM54T35 -405/TP	DHM54T35 -410/TP	DHM54T35 -415/TP	DHM54T35 -420/TP	DHM54T35 -425/TP	DHM54T35 -430/TP
Maximum power (W)	405	410	415	420	425	430
Voltage at maximum power point (VMP/V)	31.35	31.65	31.85	32.05	32.25	32.45
Current at maximum power point (IMP/A)	12.92	12.95	13.03	13.10	13.18	13.25
Open circuit voltage (VOC/V)	37.13	37.53	37.78	38.03	38.28	38.53
Short circuit current (ISC/A)	13.83	13.90	13.94	13.99	14.04	14.09
Component efficiency [%]	20.74%	21.00%	21.25%	21.51%	21.76%	22.02%
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	DHM54T35 -405/TP	DHM54T35 -410/TP	DHM54T35 -415/TP	DHM54T35 -420/TP	DHM54T35 -425/TP	DHM54T35 -430/TP
Maximum power (W)	301	305	309	312	316	320
Voltage at maximum power point (Vmp)[V]	29.31	29.55	29.73	29.91	30.12	30.33
Current at maximum power point (Imp)[A]	10.28	10.32	10.39	10.45	10.50	10.55
Open circuit voltage (Voc)[V]	35.16	34.94	35.16	35.36	35.56	35.76
Short circuit current (Isc)[A]	11.55	11.43	11.55	11.61	11.67	11.75
Nominal cell operating temperature(NOCT)	Irradiance800W/㎡, ambient temperature20℃, spectrum AM1.5G, wind speed 1m/s					