






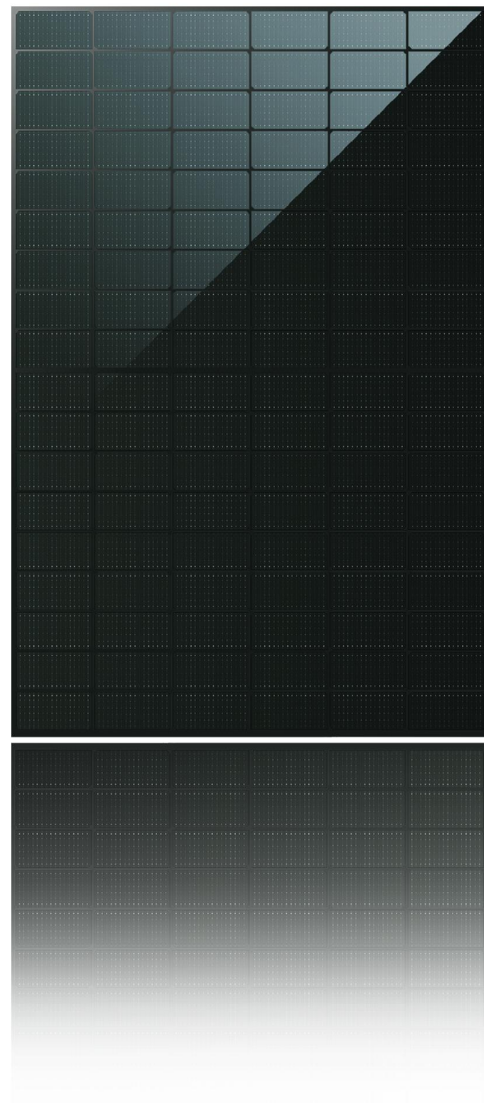
# DHM54T35-TP

## 405-430W

Full-black Aesthetic  
High performance N-Type TOPCon solar module

-  High performance N-Type TOPCon 108 halfcell with a conversion efficiency upto 22.02%.
-  Guaranteed positive power tolerance from 0-5 Wp by individual measurement
-  Ultra-low attenuation rate, first year attenuation  $\leq 1\%$ , 2 to 30 years linear attenuation  $\leq 0.4\%$
-  Advanced automatic production line with full quality inspection to ensure product assurance
-  Excellent energy yield - in low-light conditions.

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.



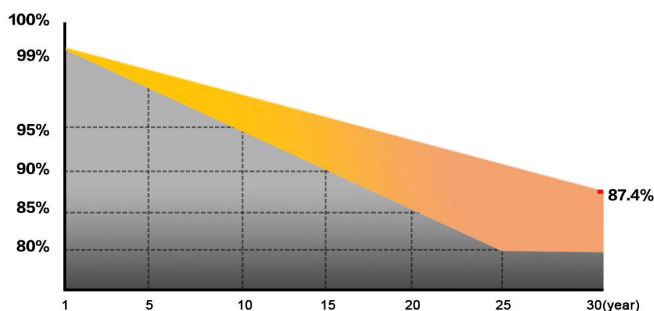


**30 YEARS**  
30 YEAR LINEARITY  
POWER  
OUTPUT WARRANTY



**25 YEARS**  
15 YEARS OF EXCELLENT  
PRODUCTS MATERIAL  
AND PROCESS WARRANTY

**EXCELLENT LINEAR PERFORMANCE GUARANTEE!**



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



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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website: www.dahaisolar.com

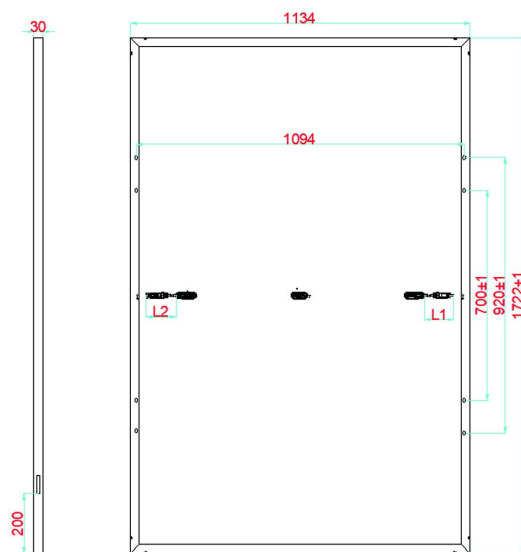
Nominal output	Power Tolerance	Maximum efficiency	First year power degradation	Year 2-30 power degradation
<b>430W</b>	<b>0~ +5W</b>	<b>22.02%</b>	<b>≤1.0%</b>	<b>≤0.4%</b>

**MECHANICAL PROPERTIES**

Cell type	Monocrystalline-TOPCon
Weight	21.5kg
Dimension	1722×1134×30mm
No. of Cells	108 (6x18)
Output Cable	4mm <sup>2</sup>
Junction Box	IP68, 3 diodes
Connector	MC4-EVO2
Packaging information	36 pcs/pallet/216Pcs per20"GP 936 pcs per 40"HC

**WORKING PARAMETERS**

Maximum system voltage	1500V DC
Operating temperature	-40°C~ +85°C
Maximum series fuse rating	25A
Front side maximum static loading	5400pa
Back side maximum static loading	2400pa
Nominal operating cell temperature	45±2°C
Application Level	classA


**TEMPERATURE RATINGS(STC)**

Temperature Coefficient of Pmax	-0.350%/°C
Temperature Coefficient of Voc	-0.274%/°C
Temperature Coefficient of Isc	0.044%/°C

**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 (Pmax/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/m<sup>2</sup>, 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**

Modle	DHM54T35 -405/TP	DHM54T35 -410/TP	DHM54T35 -415/TP	DHM54T35 -420/TP	DHM54T35 -425/TP	DHM54T35 -430/TP
Maximum power (Pmax/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/m <sup>2</sup> , ambient temperature20°C, spectrum AM1.5G, wind speed 1m/s					

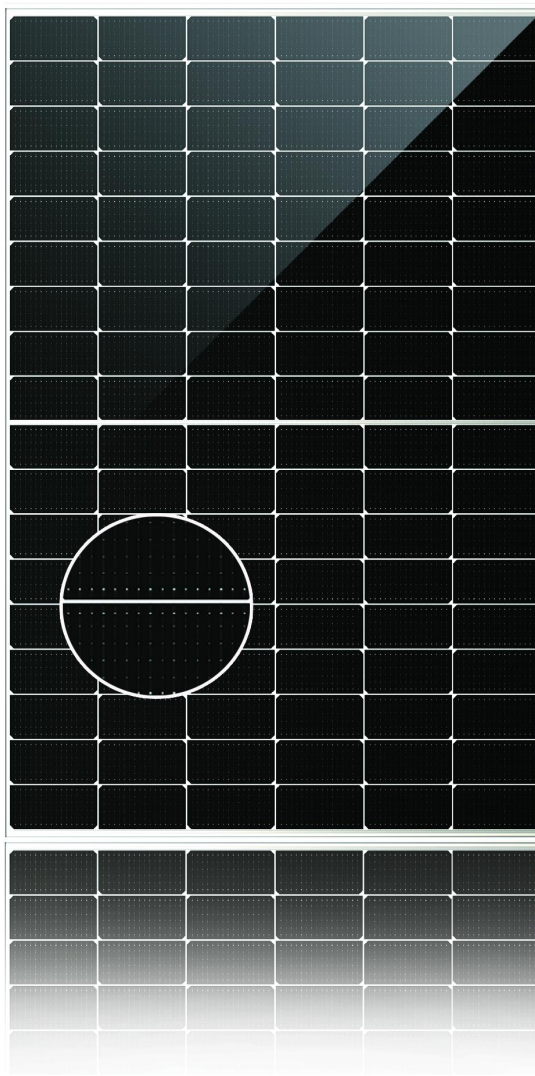
# DHM54T31-TP

## 410-435W

High performance N-Type TOPCon solar module

-  High performance N-Type TOPCon 108 halfcell with a conversion efficiency upto 22.28%.
-  Guaranteed positive power tolerance from 0-5 Wp by individual measurement
-  Ultra-low attenuation rate, first year attenuation  $\leq 1\%$ , 2 to 30 years linear attenuation  $\leq 0.4\%$
-  Advanced automatic production line with full quality inspection to ensure product assurance
-  Excellent energy yield through innovative TOP N-Type TOPCon Technology in low-light conditions.

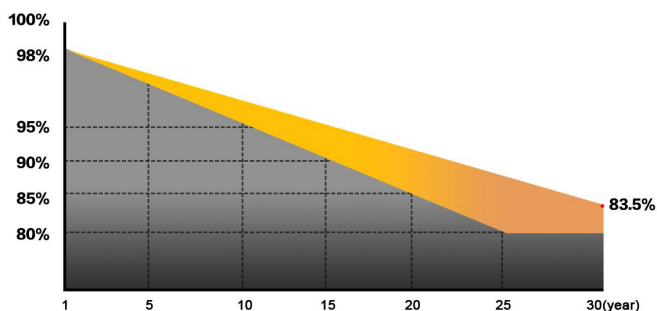
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**30**  
YEARS  
30 YEARS  
PERFORMANCE  
GUARANTEE

**25**  
YEARS  
15 YEARS  
MANUFACTURER'S  
WARRANTY

### EXCELLENT LINEAR PERFORMANCE GUARANTEE!



The power attenuation less than exceed 1% in the first year and 0.4% in the following years.



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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Website: www.dahaisolar.com



Nominal output

**435W**

Power Tolerance

**0~+5W**

Maximum efficiency

**22.28%**

First year power degradation

**≤1.0%**

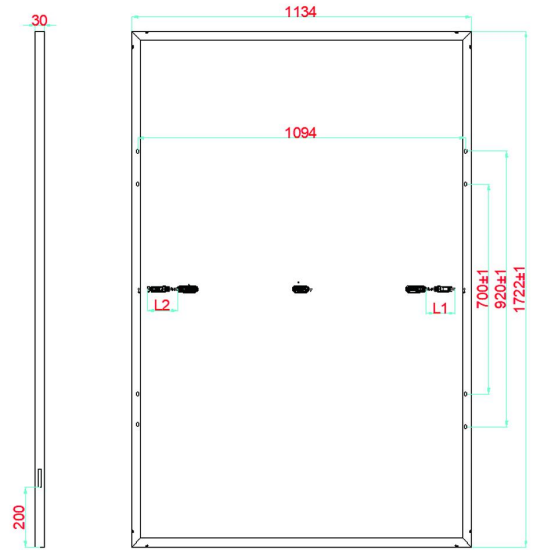
Year 2-30 power degradation

**≤0.4%**
**MECHANICAL PROPERTIES**

Cell type	Monocrystalline-TOPCon
Weight	21.5kg
Dimension	1722×1134×30mm
No. of Cells	108(6x18)
Output Cable	4mm <sup>2</sup>
Junction Box	IP68, 3 diodes
Connector	MC4-EVO2
Packaging information	36 pcs/pallet/216Pcs per20"GP 936 pcs per 40"HC

**WORKING PARAMETERS**

Maximum system voltage	1500V (TUV)
Operating temperature	-40°C ~ +85°C
Maximum series fuse rating	25A
Front side maximum static loading	5400pa
Back side maximum static loading	2400pa
Nominal operating cell temperature	45±2°C
Application Level	classA


**TEMPERATURE RATINGS(STC)**

Temperature Coefficient of Pmax	-0.350%/°C
Temperature Coefficient of Voc	-0.274%/°C
Temperature Coefficient of Isc	0.044%/°C

**ELECTRICAL PERFORMANCE PARAMETERS UNDER STC**

Modle	DHM54T31 -410/TP	DHM54T31 -415/TP	DHM54T31 -420/TP	DHM54T31 -425/TP	DHM54T31 -430/TP	DHM54T31 -435/TP
Maximum power (Pmax/W)	410	415	420	425	430	435
Voltage at maximum power point (Vmp/V)	31.65	31.85	32.05	32.25	32.45	32.65
Current at maximum power point (Imp/A)	12.95	13.03	13.10	13.18	13.25	13.32
Open circuit voltage (Voc/V)	37.53	37.78	38.03	38.28	38.53	38.78
Short circuit current (Isc/A)	13.90	13.94	13.99	14.04	14.09	14.13
Component efficiency [%]	21.00%	21.25%	21.51%	21.76%	22.02%	22.28%
Power tolerance (W)	0~+5					
Standard test environment	Irradiance 1000W/m <sup>2</sup> , 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**

Modle	DHM54T31 -410/TP	DHM54T31 -415/TP	DHM54T31 -420/TP	DHM54T31 -425/TP	DHM54T31 -430/TP	DHM54T31 -435/TP
Maximum power (Pmax/W)	305	309	312	316	320	324
Voltage at maximum power point (Vmp/V)	29.55	29.73	29.91	30.12	30.33	30.56
Current at maximum power point (Imp/A)	10.32	10.39	10.45	10.50	10.55	10.59
Open circuit voltage (Voc/V)	34.94	35.16	35.36	35.56	35.76	35.96
Short circuit current (Isc/A)	11.43	11.55	11.61	11.67	11.75	11.83
Nominal cell operating temperature(NOCT)	Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, spectrum AM1.5G, wind speed 1m/s					

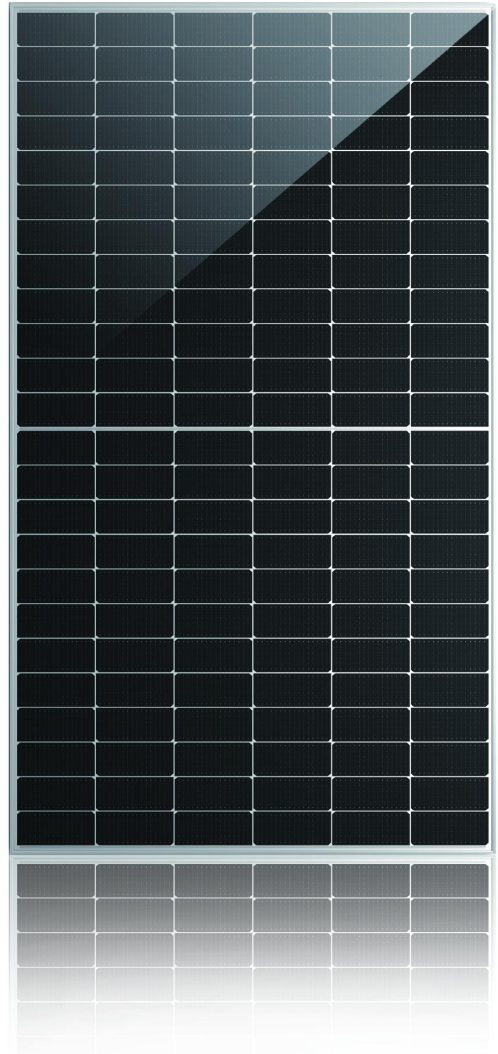
# DHM72T31-TP

## 555-585W

High performance N-Type TOPCon solar module

-  High performance N-Type TOPCon 108 halfcell with a conversion efficiency upto 22.64%..
-  Guaranteed positive power tolerance from 0-5 Wp by individual measurement
-  Ultra-low attenuation rate, first year attenuation  $\leq 1\%$ , 2 to 30 years linear attenuation  $\leq 0.4\%$
-  Advanced automatic production line with full quality inspection to ensure product assurance
-  Excellent energy yield through innovative TOP N-Type TOPCon Technology in low-light conditions.

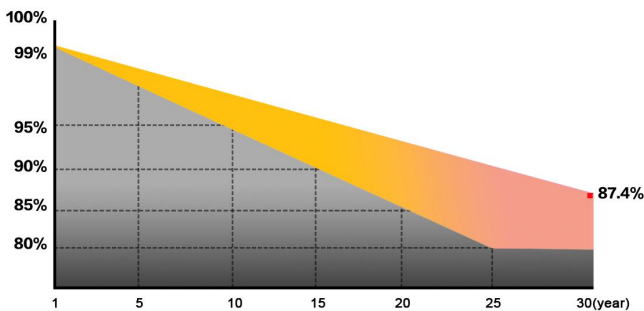
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**30**  
YEARS  
30 YEAR LINEARITY  
POWER  
OUTPUT WARRANTY

**25**  
YEARS  
15 YEARS OF EXCELLENT  
PRODUCTS MATERIAL  
AND PROCESS WARRANTY

### EXCELLENT LINEAR PERFORMANCE GUARANTEE!



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



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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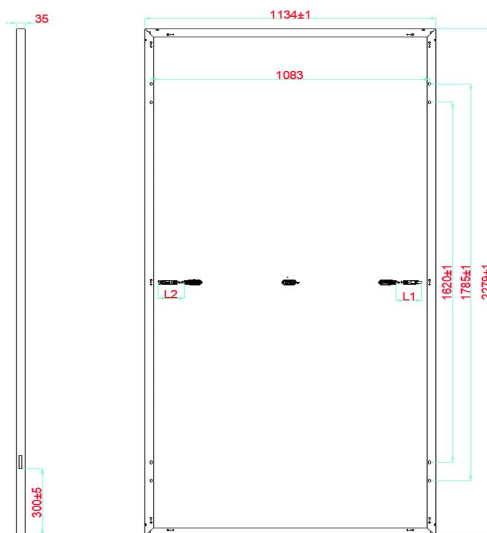
Nominal output	Power tolerance	Maximum efficiency	First year power degradation	Year 2-30 power degradation
<b>585W</b>	<b>0~+5W</b>	<b>22.64%</b>	<b>≤1.0%</b>	<b>≤0.4%</b>

**MECHANICAL PROPERTIES**

Cell type	Monocrystalline-TOPCon
Weight	28kg
Dimension	2279×1134×35mm
No. of Cells	144(6x24)
Output Cable	4mm <sup>2</sup>
Junction Box	IP68, 3 diodes
Connector	MC4-EVO2
Packaging information	31 pcs/pallet/155Pcs per 20°GP 620 pcs per 40°HC

**WORKING PARAMETERS**

Maximum system voltage	1500V DC
Operating temperature	-40°C~+85°C
Maximum series fuse rating	25A
Front side maximum static loading	5400pa
Back side maximum static loading	2400pa
Nominal operating cell temperature	45±2°C
Application Level	classA


**TEMPERATURE RATINGS(STC)**

Temperature Coefficient of Pmax	-0.350%/°C
Temperature Coefficient of Voc	-0.274%/°C
Temperature Coefficient of Isc	0.044%/°C

**ELECTRICAL PERFORMANCE PARAMETERS UNDER STC**

Model	DHM72T31-555/TP	DHM72T31-560/TP	DHM72T31-565/TP	DHM72T31-570/TP	DHM72T31-575/TP	DHM72T31-580/TP	DHM72T31-585/TP
Maximum power (Pmax/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 <sup>2</sup> , 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**

Model	DHM72T31-555/TP	DHM72T31-560/TP	DHM72T31-565/TP	DHM72T31-570/TP	DHM72T31-575/TP	DHM72T31-580/TP	DHM72T31-585/TP
Maximum power (Pmax/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)	Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, spectrum AM1.5G, wind speed 1m/s						

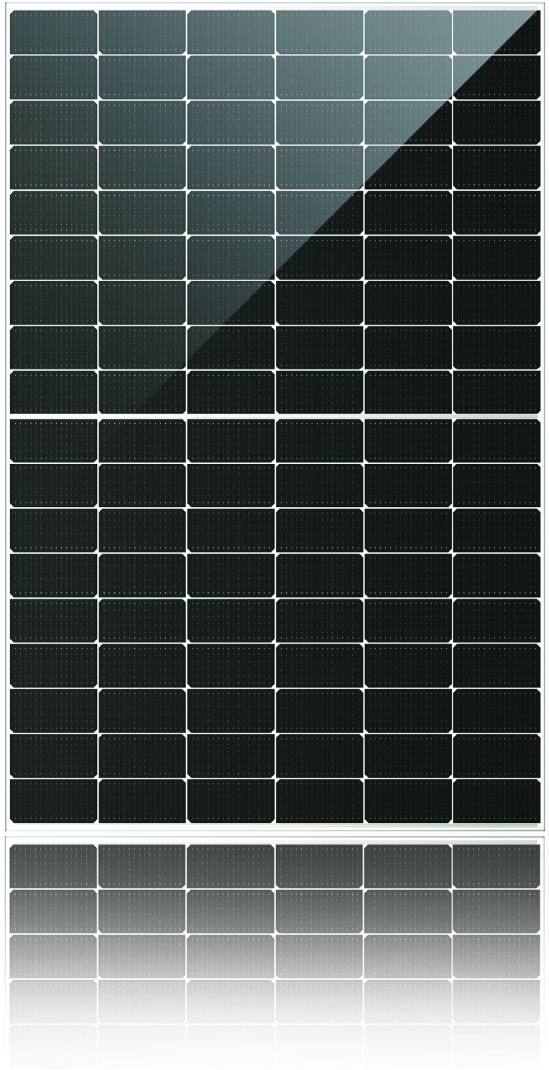
# DHM54D30-TP

## 415-440W

High performance TOPCon double glass bifacial solar module

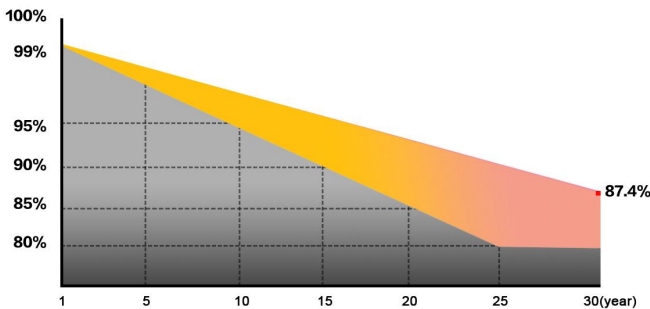
-  High performance N-Type TOPCon 16BB silicon cells, with a conversion efficiency upto 22.53%.
-  Up to 30 % more power output by Bifacial-Technology
-  Ultra-low attenuation rate, first year attenuation  $\leq 1\%$ , 2-30 years linear attenuation  $\leq 0.4\%$
-  Fully automatic production line with full quality inspection to ensure product assurance
-  Components are resisting wind loads of 2400pa and snow loads of 5400pa

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**30 YEARS** 30 YEAR LINEARITY POWER OUTPUT WARRANTY

**25 YEARS** 15 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  
 IEC 61215, IEC 61730  
 ISO 9001:Quality Management System  
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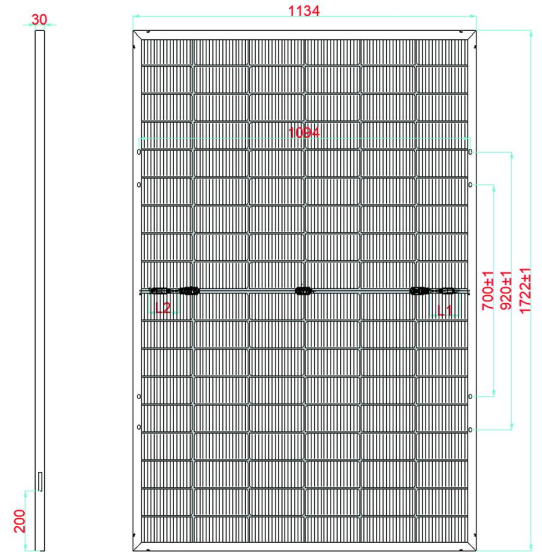
Nominal output	Power tolerance	Maximum efficiency	First year attenuation	Decay over the years
<b>440W</b>	<b>0~+5W</b>	<b>22.53%</b>	<b>≤1.0%</b>	<b>≤0.4%</b>

**MECHANICAL PROPERTIES**

Cell type	Monocrystalline-TOPCon
Weight	24.5kg
Dimension	1722×1134×30mm
No. of Cells	108(6x18)
Output Cable	4mm <sup>2</sup>
Junction Box	IP68, 3 diodes
Connector	MC4-EVO2
Packaging information	36 pcs/pallet/216Pcs per20"GP 936 pcs per 40"HC

**WORKING PARAMETERS**

Maximum system voltage	1500V (TUV)
Operating temperature	-40°C ~ +85°C
Maximum series fuse rating	25A
Front side maximum static loading	5400pa
Back side maximum static loading	2400pa
Nominal operating cell temperature	45±2°C
Application Level	classA


**TEMPERATURE CHARACTERISTICS**

Temperature Coefficient of Pmax	-0.350%/°C
Temperature Coefficient of Voc	-0.274%/°C
Temperature Coefficient of Isc	0.044%/°C

**ELECTRICAL PERFORMANCE PARAMETERS UNDER STC**

Modle	DHM54D30 -415/TP	DHM54D30 -420/TP	DHM54D30 -425/TP	DHM54D30 -430/TP	DHM54D30 -435/TP	DHM54D30 -440/TP
Maximum power (Pmax/W)	415	420	425	430	435	440
Voltage at maximum power point (Vmp/V)	31.75	31.95	32.15	32.35	32.55	32.75
Current at maximum power point (Imp/A)	13.07	13.15	13.22	13.29	13.36	13.44
Open circuit voltage (Voc/V)	36.95	37.15	37.35	37.55	37.75	37.95
Short circuit current (Isc/A)	13.81	13.88	13.94	14.01	14.08	14.15
Component efficiency [%]	21.25%	21.51%	21.76%	22.02%	22.28%	22.53%
Power tolerance (W)	0~+5					
Standard test environment	Irradiance 1000W/m <sup>2</sup> , 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.

**BIFACIAL OUTPUT - BACKSIDE POWER GAIN**

Modle	DHM54D30 -415/TP	DHM54D30 -420/TP	DHM54D30 -425/TP	DHM54D30 -430/TP	DHM54D30 -435/TP	DHM54D30 -440/TP
5% Power output	436	441	446	452	457	462
Module Efficiency	22.31%	22.58%	22.85%	23.12%	23.39%	23.66%
10% Power output	457	462	468	473	479	484
Module Efficiency	23.38%	23.66%	23.94%	24.22%	24.50%	24.79%
20% Power output	498	504	510	516	522	528
Module Efficiency	25.50%	25.81%	26.12%	26.42%	26.73%	27.04%



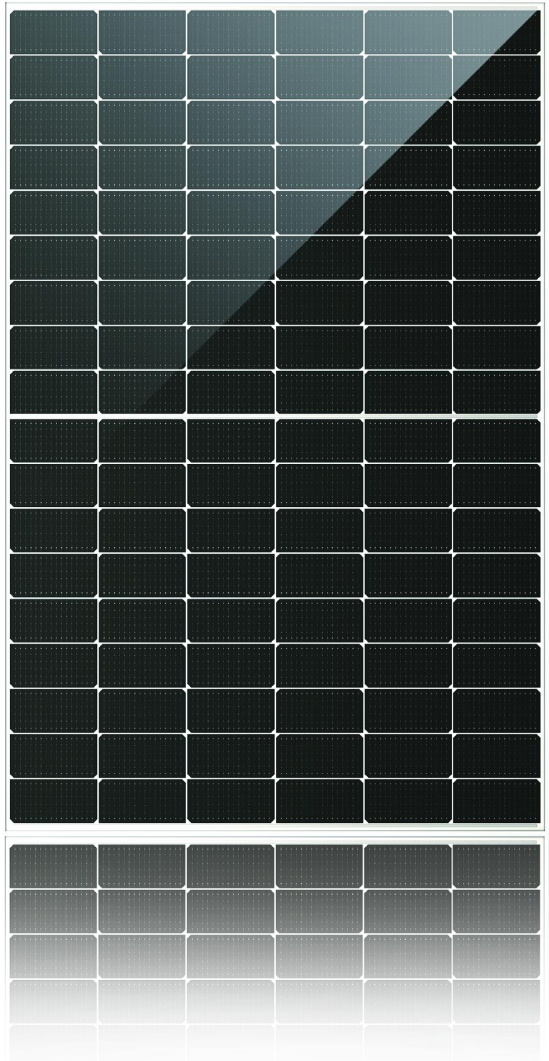
# DHM54D30-TP

## 405-430W

High performance transparent TOPCon double glass bifacial solar module

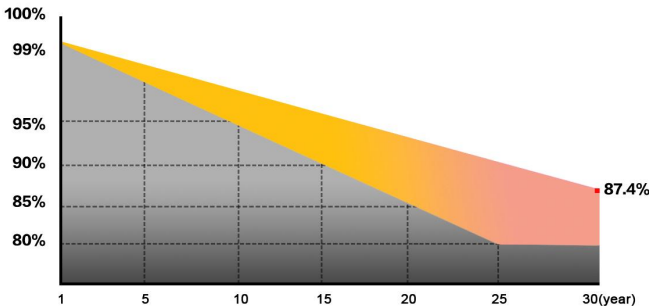
- High performance N-Type TOPCon 16BB silicon cells, with a conversion efficiency upto 22.02%.
- Up to 20 % more power output by Bifacial-Technology
- Ultra-low attenuation rate, first year attenuation  $\leq 1\%$ , 2-30 years linear attenuation  $\leq 0.4\%$
- Fully automatic production line with full quality inspection to ensure product assurance
- Components are resisting wind loads of 2400pa and snow loads of 5400pa

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**30 YEARS** 30 YEAR LINEARITY POWER OUTPUT WARRANTY

**25 YEARS** 15 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  
 IEC 61215, IEC 61730  
 ISO 9001:Quality Management System  
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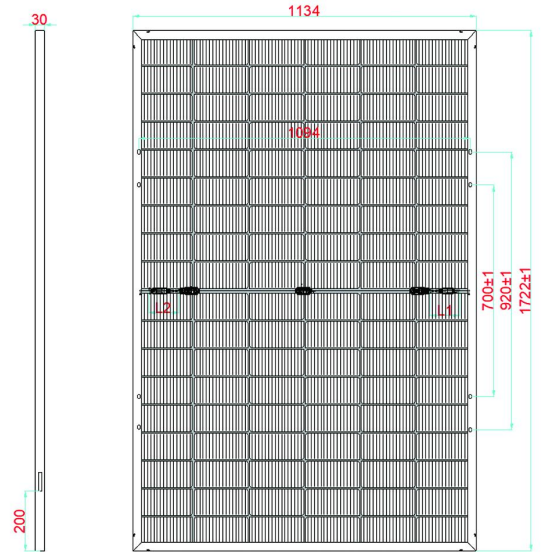
Nominal output	Power tolerance	Maximum efficiency	First year attenuation	Decay over the years
<b>430W</b>	<b>0~+5W</b>	<b>22.02%</b>	<b>≤1.0%</b>	<b>≤0.4%</b>

**MECHANICAL PROPERTIES**

Cell type	Monocrystalline-TOPCon
Weight	24.5kg
Dimension	1722×1134×30mm
NO.of Cells	108(6x18)
Output Cable	4mm <sup>2</sup>
Junction Box	IP68, 3 diodes
Connector	MC4-EVO2
Packaging information	36 pcs/pallet/216Pcs per20"GP 936 pcs per 40"HC

**WORKING PARAMETERS**

Maximum system voltage	1500V (TUV)
Operating temperature	-40°C ~ +85°C
Maximum series fuse rating	25A
Front side maximum static loading	5400pa
Back side maximum static loading	2400pa
Nominal operating cell temperature	45±2°C
Application Level	classA


**TEMPERATURE CHARACTERISTICS**

Temperature Coefficient of Pmax	-0.350%/°C
Temperature Coefficient of Voc	-0.274%/°C
Temperature Coefficient of Isc	0.044%/°C

**ELECTRICAL PERFORMANCE PARAMETERS UNDER STC**

Modle	DHM54D30 -405/TP	DHM54D30 -410/TP	DHM54D30 -415/TP	DHM54D30 -420/TP	DHM54D30 -425/TP	DHM54D30 -430/TP
Maximum power (Pmax/W)	405	410	415	420	425	430
Voltage at maximum power point (Vmp/V)	31.35	31.55	31.75	31.95	32.15	32.35
Current at maximum power point (Imp/A)	12.92	13.00	13.07	13.15	13.22	13.29
Open circuit voltage (Voc/V)	36.55	36.75	36.95	37.15	37.35	37.55
Short circuit current (Isc/A)	13.68	13.75	13.81	13.88	13.94	14.01
Component efficiency [%]	20.74%	21.00%	21.25%	21.51%	21.76%	22.02%
Power tolerance (W)	0~+5					
Standard test environment	Irradiance 1000W/m <sup>2</sup> , 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.

**BIFACIAL OUTPUT - BACKSIDE POWER GAIN**

Modle	DHM54D30 -405/TP	DHM54D30 -410/TP	DHM54D30 -415/TP	DHM54D30 -420/TP	DHM54D30 -425/TP	DHM54D30 -430/TP
5% Power output	425	431	436	441	446	452
Module Efficiency	21.78%	22.05%	22.31%	22.58%	22.85%	23.12%
10% Power output	446	451	457	462	468	473
Module Efficiency	22.81%	23.10%	23.38%	23.66%	23.94%	24.22%
20% Power output	486	492	498	504	510	516
Module Efficiency	24.89%	25.20%	25.50%	25.81%	26.12%	26.42%