



Solar Panel Catalogue 2025

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www.ueenergysolution.com



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ABOUT UE



United Energy(UE in short): Pioneering Smart Solar Solutions for a Sustainable Future

As a global leader in smart solar technology, UE is committed to advancing renewable energy for a cleaner, greener world. With over 15 years of expertise, we deliver innovative photovoltaic (PV) products, applications, and services that make solar power more accessible and efficient.

Our mission is to drive the global transition to renewable energy, empowering individuals and businesses to harness power of sun anywhere in the world. Our proven 6-step process ensures seamless installation, commissioning, maintenance, and monitoring of PV plants, guaranteeing long-term success and reliability.

At UE, we believe in collaboration and innovation. Together, we can create a sustainable future—for humanity and the planet.



01 Cost-effective

As a factory-direct supplier, we deliver cost-effective PV modules and batteries, maximizing value through lower manufacturing costs.



02 Professional

A professional team for the whole solutions, the layout/ electrical design/monitoring solutions; Remote guidance or on-site training Service.



03 Localized Service

We provide the local service for whole Europe area, Vietnam,etc. The specific country list is being updated continuously.



04 Sourcing Expert

We have a deep understanding of PV and energy industry, and can help you find the most suitable solution in China.

OUR FACTORY

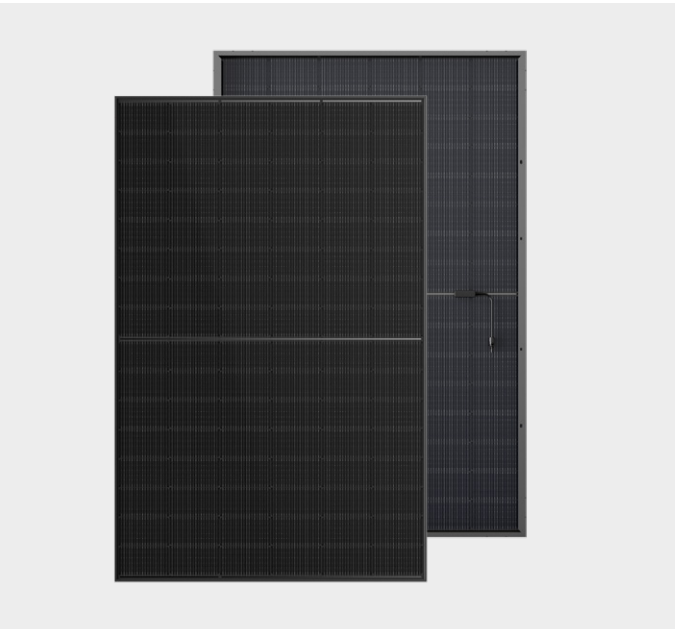


HOT SALE PRODUCTS

UE470 T-48HBD



N-type TOPCon Rectangle Dual Glass All Black Solar Module



1500V DC(IEC)	30 Years	23.52%	0~+5W
Max. System Voltage	Power Warranty	Max. Efficiency	Power Tolerance

UE530 T-54HBD



N-type TOPCon Rectangle Dual Glass All Black Solar Module

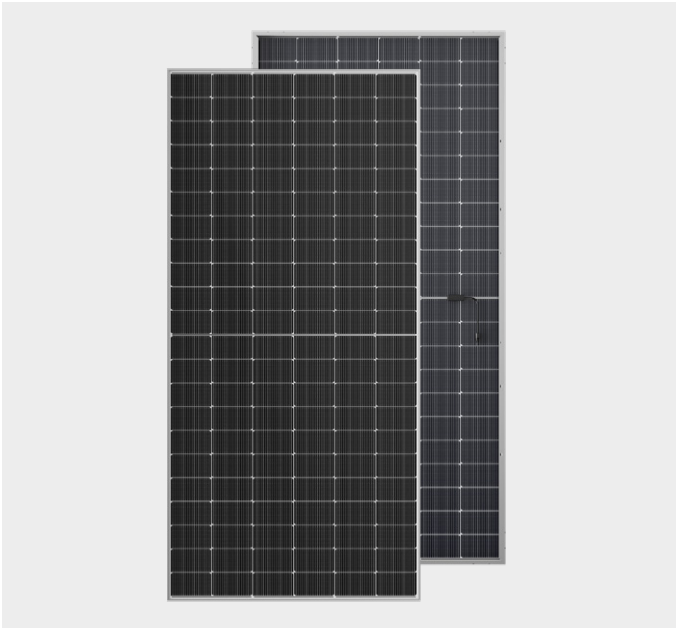


1500V DC(IEC)	30 Years	23.85%	0~+5W
Max. System Voltage	Power Warranty	Max. Efficiency	Power Tolerance

UE630 T-66HBD



N-type TOPCon Rectangle Dual Glass Solar Module

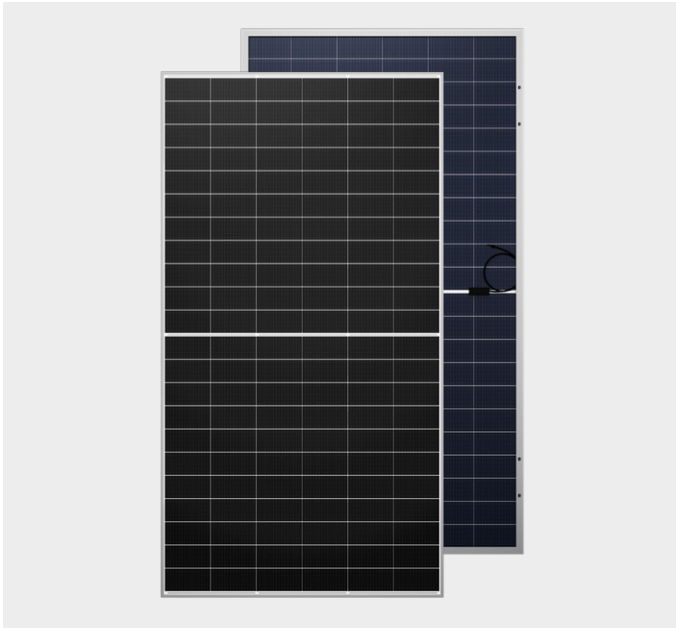


1500V DC(IEC)	30 Years	23.32%	0~+5W
Max. System Voltage	Power Warranty	Max. Efficiency	Power Tolerance

UE750H-66HBD



HJT Bifacial Half-cell Double Glass Solar Module



1500V DC(IEC)	30 Years	24.10%	0~+5W
Max. System Voltage	Power Warranty	Max. Efficiency	Power Tolerance

UNI T

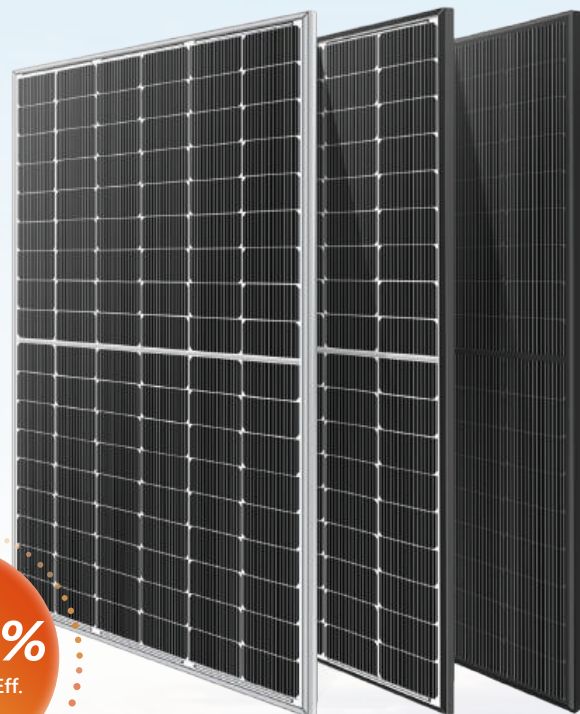
UE450T-54HBD

430~450W

N-type TOPCon Bifacial Dual Glass Solar Module

23.04%

Max Module Eff.



N-Type MBB Cell

New circuit design N-type cells, can increase the output power of 10~20W.



Low Light Features

Higher performance under low light environment.



Bifacial with dual glass

Module adopts 182*182mm half cells, bifacial module provide an additional 5%~25% output.



PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.



Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by TUV Nord.



Load Capacity

Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa done by TUV Nord.



Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System.

ISO14001: 2015: ISO Environmental Management System.

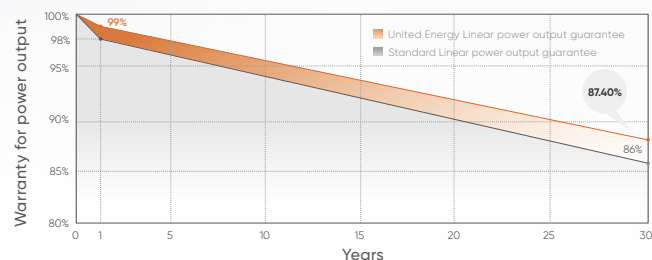
ISO45001: 2018: Occupation Health and Safety.

IEC62941: Guideline for module design qualification and type approval.

Quality Guarantee

15 year Materials Warranty

30 year Power Warranty



Electrical Parameters(STC*)

Module Type	430	435	440	445	450
Maximum power (Pmax/W)	430	435	440	445	450
Open Circuit Voltage (Voc/V)	38.57	38.72	38.87	39.02	39.17
Short Circuit Current (Isc/A)	14.09	14.18	14.27	14.36	14.44
Voltage at Maximum power (Vmp/V)	31.76	31.89	32.05	32.20	32.35
Current at Maximum Power (Imp/A)	13.54	13.64	13.73	13.82	13.91
Module Efficiency(%)	22.02	22.28	22.53	22.79	23.04

1. Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

Electrical Parameters(NMOT*)

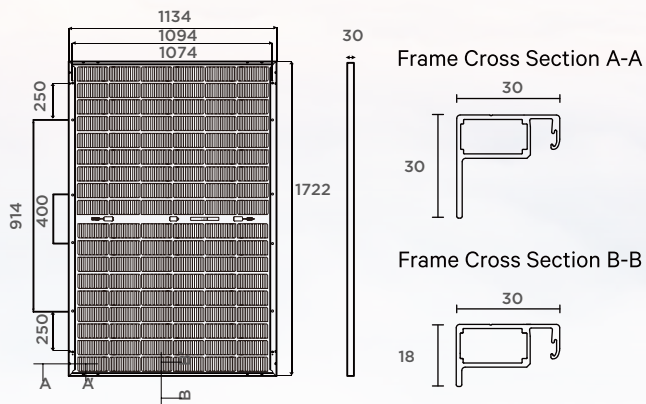
Power (Pmax/W)	324	327	331	335	339
Open Circuit Voltage (Voc/V)	36.63	36.78	36.39	37.08	37.23
Short Circuit Current (Isc/A)	11.36	11.38	11.45	11.52	11.58
Maximum power Voltage (Vmp/V)	29.65	29.78	29.93	30.08	30.24
Maximum power Current (Imp/A)	10.93	10.98	11.06	11.14	11.21

1. Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

Electrical Parameters(At 10% Bifacial Power Output)

Output Power (Pmax/W)	473	479	484	490	495
Open Circuit Voltage (Voc/V)	38.57	38.72	38.87	39.02	39.17
Short Circuit Current (Isc/A)	15.60	15.71	15.80	15.91	15.97
Maximum power Voltage (Vmp/V)	31.75	31.89	32.05	32.20	32.35
Maximum power Current (Imp/A)	14.90	15.02	15.10	15.22	15.30

Design(mm)



Design(mm)

Solar Cells	N-type Mono
No. of Cells	54*2 pcs
Dimensions	1722*1134*30mm
Weight	24kg
Glass	Double glass, 2.0mm/1.6mm
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 Bypass Diodes)
Output Cables	4mm ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa
Packaging	36pcs/box, 936pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0/+5W

Temperature Characteristics

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C

UNI T
UE475 T-48HBD

455~475W

N-type TOPCon Rectangle Dual Glass Solar Module

23.77%
Max Module Eff.



N-Type MBB Cell

New circuit design N-type cells, can increase the output power of 10~20W.



Low Light Features

Higher performance under low light environment.



Bifacial with dual glass

Module adopts 182*210mm half cells, bifacial module provide an additional 5%~25% output.



PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.



Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by TUV Nord.



Load Capacity

Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa done by TUV Nord.



Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System.

ISO14001: 2015: ISO Environmental Management System.

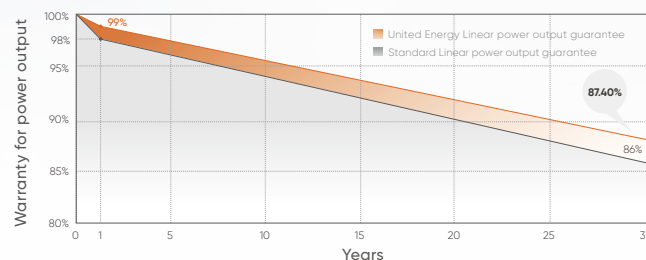
ISO45001: 2018: Occupation Health and Safety.

IEC62941: Guideline for module design qualification and type approval.

Quality Guarantee

15 year Materials Warranty

30 year Power Warranty



Electrical Parameters(STC*)

Module Type	455	460	465	470	475
Maximum power (Pmax/W)	455	460	465	470	475
Open Circuit Voltage (Voc/V)	36.13	36.48	36.83	37.15	37.47
Short Circuit Current (Isc/A)	16.02	16.09	16.16	16.24	16.29
Voltage at Maximum power (Vmp/V)	29.98	30.18	30.38	30.58	30.78
Current at Maximum Power (Imp/A)	15.18	15.25	15.32	15.40	15.46
Module Efficiency(%)	22.77	23.02	23.27	23.52	23.77

1. Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

Electrical Parameters(NMOT*)

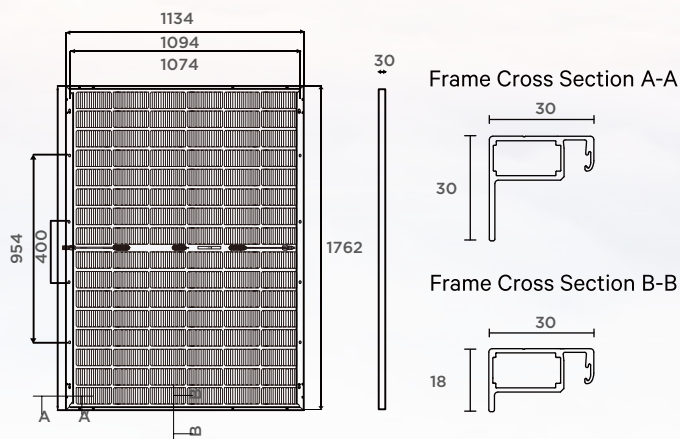
Power (Pmax/W)	347	351	355	359	363
Open Circuit Voltage (Voc/V)	34.34	34.59	34.86	35.11	35.38
Short Circuit Current (Isc/A)	12.88	12.96	13.04	13.12	13.20
Maximum power Voltage (Vmp/V)	28.24	28.43	28.62	28.81	28.99
Maximum power Current (Imp/A)	12.29	12.35	12.41	12.47	22.53

1. Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

Electrical Parameters(At 10% Bifacial Power Output)

Output Power (Pmax/W)	501	507	512	518	523
Open Circuit Voltage (Voc/V)	36.13	36.38	36.63	36.88	37.13
Short Circuit Current (Isc/A)	17.59	17.66	17.73	17.81	17.88
Maximum power Voltage (Vmp/V)	29.98	30.17	30.35	30.55	30.74
Maximum power Current (Imp/A)	16.69	16.76	16.83	16.90	16.97

Design(mm)



Design(mm)

Solar Cells	N-type Mono
No. of Cells	48*2 pcs
Dimensions	1762*1134*30mm
Weight	25kg
Glass	Double glass, 2.0mm/1.6mm
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 Bypass Diodes)
Output Cables	4mm ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa
Packaging	36pcs/box, 936pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0/+5W

Temperature Characteristics

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C

UNI T
UE500T-60HBD

480~500W

N-type TOPCon Bifacial Dual Glass Solar Module

23.09%
Max Module Eff.



N-Type MBB Cell

New circuit design N-type cells, can increase the output power of 10~20W.



Low Light Features

Higher performance under low light environment.



Bifacial with dual glass

Module adopts 182*182mm half cells, bifacial module provide an additional 5%-25% output.



PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.



Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by TUV Nord.



Load Capacity

Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa done by TUV Nord.



Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System.

ISO14001: 2015: ISO Environmental Management System.

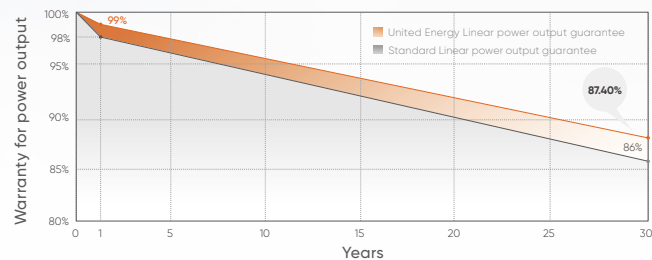
ISO45001: 2018: Occupation Health and Safety.

IEC62941: Guideline for module design qualification and type approval.

Quality Guarantee

15 year Materials Warranty

30 year Power Warranty



Electrical Parameters(STC*)

Module Type	480	485	490	495	500
Maximum power (Pmax/W)	480	485	490	495	500
Open Circuit Voltage (Voc/V)	42.90	43.06	43.21	43.35	43.51
Short Circuit Current (Isc/A)	14.12	14.19	14.28	14.36	14.44
Voltage at Maximum power (Vmp/V)	35.32	35.49	35.65	35.83	36.00
Current at Maximum Power (Imp/A)	13.59	13.68	13.79	13.87	13.96
Module Efficiency(%)	22.17	22.40	22.63	22.86	23.09

1. Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

Electrical Parameters(NMOT*)

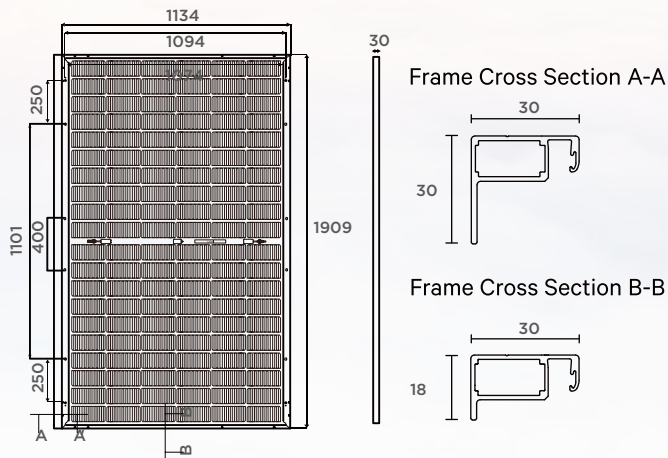
Power (Pmax/W)	361	365	369	374	379
Open Circuit Voltage (Voc/V)	40.75	40.90	41.05	41.20	41.35
Short Circuit Current (Isc/A)	11.36	11.43	11.50	11.57	11.64
Maximum power Voltage (Vmp/V)	32.97	32.13	33.29	33.45	33.61
Maximum power Current (Imp/A)	10.95	11.02	11.09	11.16	11.23

1. Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

Electrical Parameters(At 10% Bifacial Power Output)

Output Power (Pmax/W)	528	533	537	542	547
Open Circuit Voltage (Voc/V)	42.90	43.05	43.20	43.35	43.50
Short Circuit Current (Isc/A)	15.36	15.47	15.58	15.69	15.80
Maximum power Voltage (Vmp/V)	35.34	35.49	35.64	35.79	35.94
Maximum power Current (Imp/A)	14.94	15.05	15.16	15.27	15.38

Design(mm)



Design(mm)

Solar Cells	N-type Mono
No. of Cells	60*2 pcs
Dimensions	1909*1134*30mm
Weight	26.5kg
Glass	Double glass, 2.0mm/1.6mm
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 Bypass Diodes)
Output Cables	4mm ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa
Packaging	36pcs/box, 864pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0/+5W

Temperature Characteristics

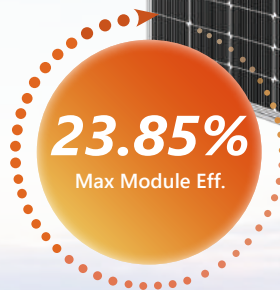
Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C

UNI T

UE530 T-54HBD

510~530W

N-type TOPCon Rectangle Dual Glass Solar Module



N-Type MBB Cell

New circuit design N-type cells, can increase the output power of 10~20W.



Low Light Features

Higher performance under low light environment.



Bifacial with dual glass

Module adopts 182*210mm half cells, bifacial module provide an additional 5%~25% output.



PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.



Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by TUV Nord.



Load Capacity

Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa done by TUV Nord.



Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System.

ISO14001: 2015:ISO Environmental Management System.

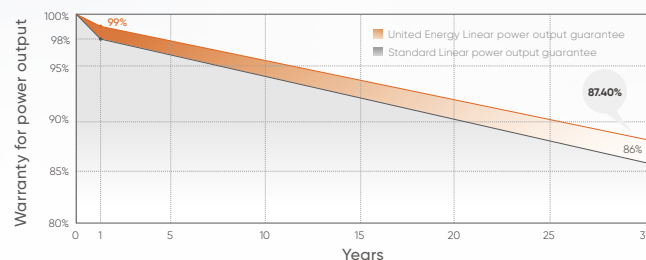
ISO45001: 2018: Occupation Health and Safety.

IEC62941:Guideline for module design qualification and type approval.

Quality Guarantee

15 year Materials Warranty

30 year Power Warranty



Electrical Parameters(STC*)

Module Type	510	515	520	525	530
Maximum power (Pmax/W)	510	515	520	525	530
Open Circuit Voltage (Voc/V)	40.57	40.82	41.07	41.32	41.57
Short Circuit Current (Isc/A)	16.01	16.07	16.13	16.19	16.25
Voltage at Maximum power (Vmp/V)	33.73	33.93	34.13	34.33	34.53
Current at Maximum Power (Imp/A)	15.12	15.18	15.24	15.30	15.36
Module Efficiency(%)	22.93	23.16	23.39	23.62	23.85

1. Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

Electrical Parameters(NMOT*)

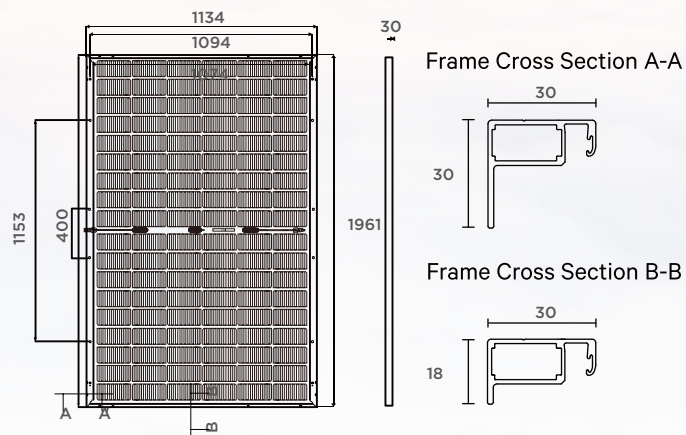
Power (Pmax/W)	389	394	398	343	348
Open Circuit Voltage (Voc/V)	38.60	38.86	39.12	39.38	39.64
Short Circuit Current (Isc/A)	12.87	12.95	13.03	13.11	13.19
Maximum power Voltage (Vmp/V)	31.72	31.92	32.12	32.52	32.72
Maximum power Current (Imp/A)	12.26	12.32	12.38	12.44	12.50

1. Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

Electrical Parameters(At 10% Bifacial Power Output)

Output Power (Pmax/W)	561	570	579	588	597
Open Circuit Voltage (Voc/V)	40.57	40.82	41.07	41.32	41.57
Short Circuit Current (Isc/A)	17.56	17.63	17.70	17.77	17.84
Maximum power Voltage (Vmp/V)	33.73	33.93	34.13	34.33	34.53
Maximum power Current (Imp/A)	16.63	16.71	16.79	16.87	16.95

Design(mm)



Design(mm)

Solar Cells	N-type Mono
No. of Cells	54*2 pcs
Dimensions	1961*1134*30mm
Weight	27.7kg
Glass	Double glass, 2.0mm/1.6mm
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 Bypass Diodes)
Output Cables	4mm ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa
Packaging	36pcs/box, 864pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0/+5W

Temperature Characteristics

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C

UNI T

UE600T-72HBD

580~600W

N-type TOPCon Bifacial Dual Glass Solar Module

23.24%
Max Module Eff.



N-Type MBB Cell

New circuit design N-type cells, can increase the output power of 10~20W.



Low Light Features

Higher performance under low light environment.



Bifacial with dual glass

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PID Protection

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Harsh Environmental Adaptability

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Load Capacity

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ISO14001: 2015: ISO Environmental Management System.

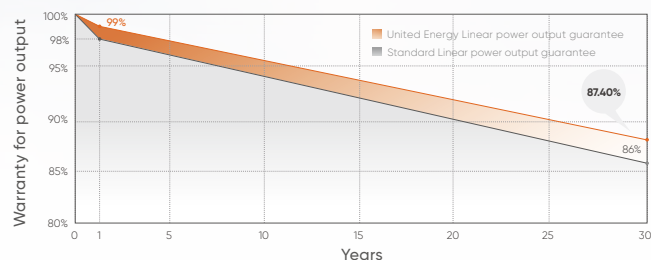
ISO45001: 2018: Occupation Health and Safety.

IEC62941: Guideline for module design qualification and type approval.

Quality Guarantee

15 year Materials Warranty

30 year Power Warranty



Electrical Parameters(STC*)

Module Type	580	585	590	595	600
Maximum power (Pmax/W)	580	585	590	595	600
Open Circuit Voltage (Voc/V)	51.57	51.72	51.87	52.02	52.17
Short Circuit Current (Isc/A)	14.18	14.24	14.30	14.36	14.42
Voltage at Maximum power (Vmp/V)	42.49	42.64	42.79	42.94	43.09
Current at Maximum Power (Imp/A)	13.65	13.72	13.79	13.86	13.93
Module Efficiency(%)	22.44	22.64	22.84	23.04	23.24

1. Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

Electrical Parameters(NMOT*)

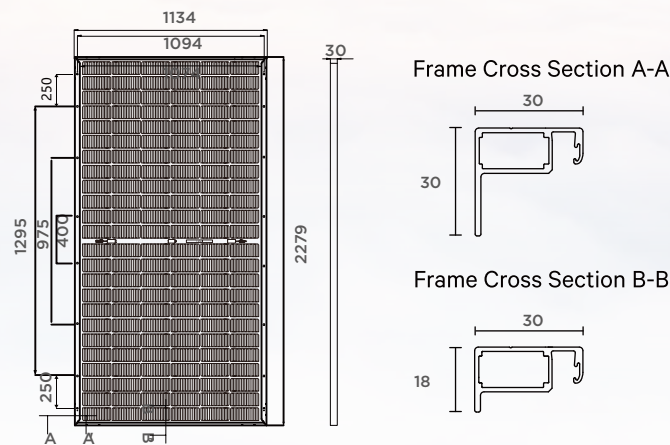
Power (Pmax/W)	437	440	443	446	449
Open Circuit Voltage (Voc/V)	48.99	49.14	49.33	49.52	49.71
Short Circuit Current (Isc/A)	11.40	11.42	11.44	11.46	11.48
Maximum power Voltage (Vmp/V)	39.66	39.82	39.98	40.14	40.30
Maximum power Current (Imp/A)	11.02	11.05	11.08	11.11	11.14

1. Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

Electrical Parameters(At 10% Bifacial Power Output)

Output Power (Pmax/W)	638	644	650	656	662
Open Circuit Voltage (Voc/V)	51.57	51.72	51.97	52.22	52.47
Short Circuit Current (Isc/A)	15.69	15.77	15.85	15.93	16.01
Maximum power Voltage (Vmp/V)	42.48	42.62	42.76	42.90	43.04
Maximum power Current (Imp/A)	15.02	15.11	15.20	15.29	15.38

Design(mm)



Design(mm)

Solar Cells	N-type Mono
No. of Cells	72*2 pcs
Dimensions	2279*1134*30mm
Weight	32kg
Glass	Double glass, 2.0mm/1.6mm
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 Bypass Diodes)
Output Cables	4mm ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa
Packaging	36pcs/box, 720pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0/+5W

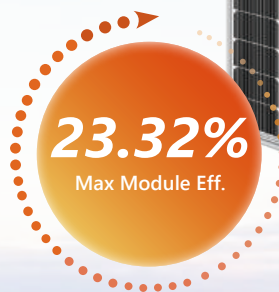
Temperature Characteristics

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C

UNI T
UE630T-66HBD

610~630W

N-type TOPCon Rectangle Dual Glass Solar Module



N-Type MBB Cell

New circuit design N-type cells, can increase the output power of 10~20W.



Low Light Features

Higher performance under low light environment.



Bifacial with dual glass

Module adopts 182*210mm half cells, bifacial module provide an additional 5%~25% output.



PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.



Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by TUV Nord.



Load Capacity

Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa done by TUV Nord.



Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System.

ISO14001: 2015: ISO Environmental Management System.

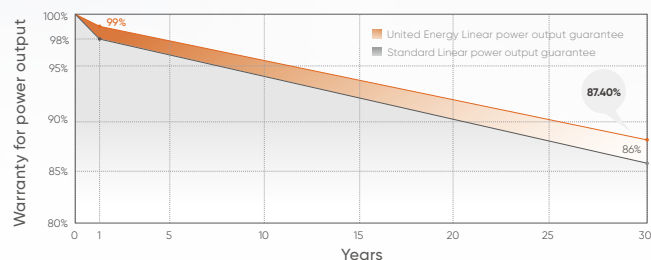
ISO45001: 2018: Occupation Health and Safety.

IEC62941: Guideline for module design qualification and type approval.

Quality Guarantee

15 year Materials Warranty

30 year Power Warranty



Electrical Parameters(STC*)

Module Type	610	615	620	625	630
Maximum power (Pmax/W)	610	615	620	625	630
Open Circuit Voltage (Voc/V)	49.05	49.35	49.55	49.75	49.95
Short Circuit Current (Isc/A)	15.84	15.88	15.93	16.00	16.05
Voltage at Maximum power (Vmp/V)	40.66	40.86	41.06	41.26	41.46
Current at Maximum Power (Imp/A)	15.00	15.05	15.10	15.15	15.20
Module Efficiency(%)	22.58	22.77	22.95	23.14	23.32

1. Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

Electrical Parameters(NMOT*)

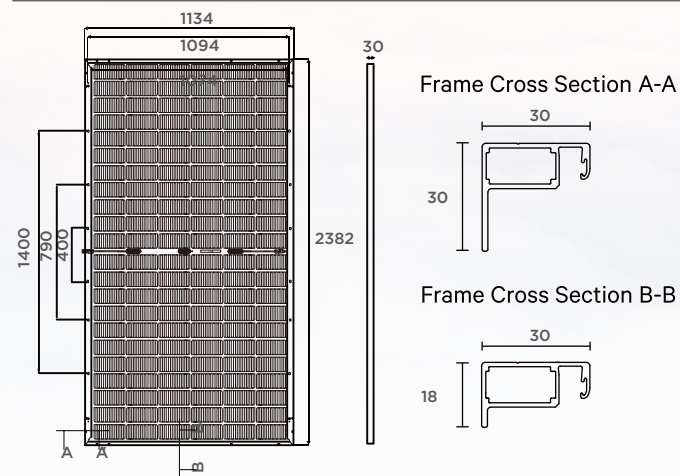
Power (Pmax/W)	465	469	472	476	480
Open Circuit Voltage (Voc/V)	46.51	46.81	47.01	47.21	47.41
Short Circuit Current (Isc/A)	12.78	12.81	12.84	12.88	12.93
Maximum power Voltage (Vmp/V)	38.20	38.40	38.60	38.80	39.00
Maximum power Current (Imp/A)	12.17	12.21	12.23	12.27	12.31

1. Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

Electrical Parameters(At 10% Bifacial Power Output)

Output Power (Pmax/W)	671	677	682	688	693
Open Circuit Voltage (Voc/V)	49.05	49.35	49.55	49.75	49.95
Short Circuit Current (Isc/A)	17.43	17.47	17.52	17.57	17.62
Maximum power Voltage (Vmp/V)	40.66	40.86	41.06	41.26	41.46
Maximum power Current (Imp/A)	16.50	16.57	16.61	16.67	16.71

Design(mm)



Design(mm)

Solar Cells	N-type Mono
No. of Cells	66*2 pcs
Dimensions	2382*1134*30mm
Weight	33.5kg
Glass	Double glass, 2.0mm/1.6mm
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 Bypass Diodes)
Output Cables	4mm ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa
Packaging	36pcs/box, 720pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0/+5W

Temperature Characteristics

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C

UNI T
UE650T-78HBD

630~650W

N-type TOPCon Bifacial Dual Glass Solar Module

23.26%
Max Module Eff.



N-Type MBB Cell

New circuit design N-type cells, can increase the output power of 10~20W.



Low Light Features

Higher performance under low light environment.



Bifacial with dual glass

Module adopts 182*182mm half cells, bifacial module provide an additional 5%~25% output.



PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.



Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by TUV Nord.



Load Capacity

Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa done by TUV Nord.



Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System.

ISO14001: 2015: ISO Environmental Management System.

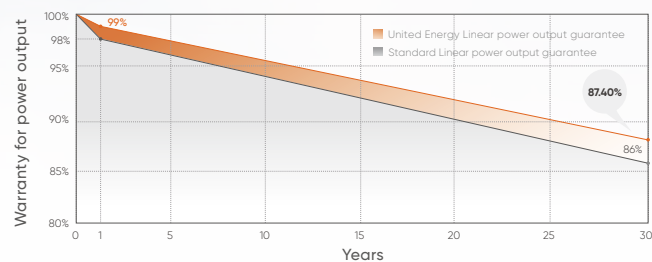
ISO45001: 2018: Occupation Health and Safety.

IEC62941: Guideline for module design qualification and type approval.

Quality Guarantee

15 year Materials Warranty

30 year Power Warranty



Electrical Parameters(STC*)

Module Type	630	635	640	645	650
Maximum power (Pmax/W)	630	635	640	645	650
Open Circuit Voltage (Voc/V)	55.91	56.06	56.21	56.36	56.51
Short Circuit Current (Isc/A)	14.21	14.27	14.33	14.39	14.45
Voltage at Maximum power (Vmp/V)	46.09	46.26	46.43	46.60	46.77
Current at Maximum Power (Imp/A)	13.67	13.73	13.79	13.85	13.91
Module Efficiency(%)	22.54	22.72	22.90	23.08	23.26

1. Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

Electrical Parameters(NMOT*)

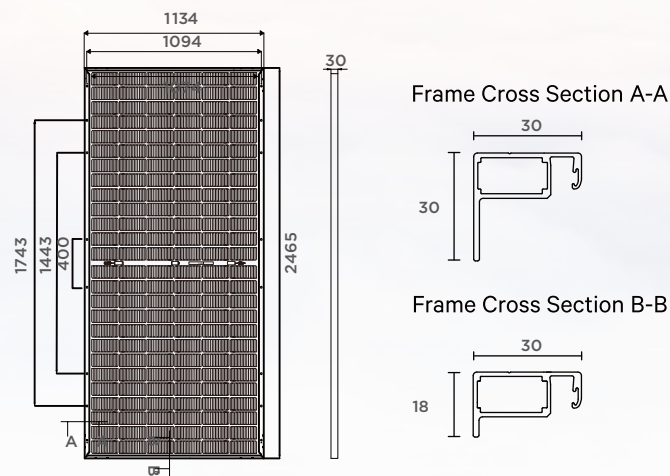
Power (Pmax/W)	475	479	483	487	491
Open Circuit Voltage (Voc/V)	53.11	53.26	53.41	53.56	53.71
Short Circuit Current (Isc/A)	11.44	11.49	11.54	11.59	11.64
Maximum power Voltage (Vmp/V)	43.03	43.20	43.37	43.54	43.71
Maximum power Current (Imp/A)	11.04	11.09	11.14	11.19	11.24

1. Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

Electrical Parameters(At 10% Bifacial Power Output)

Output Power (Pmax/W)	694	700	706	712	718
Open Circuit Voltage (Voc/V)	55.91	56.06	56.21	56.36	56.51
Short Circuit Current (Isc/A)	15.75	15.83	15.91	15.99	16.07
Maximum power Voltage (Vmp/V)	46.06	46.22	46.38	46.54	46.70
Maximum power Current (Imp/A)	15.07	15.15	15.23	15.31	15.39

Design(mm)



Design(mm)

Solar Cells	N-type Mono
No. of Cells	78*2 pcs
Dimensions	2465*1134*30mm
Weight	34.3kg
Glass	Double glass, 2.0mm/1.6mm
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 Bypass Diodes)
Output Cables	4mm ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa
Packaging	36pcs/box, 648pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0/+5W

Temperature Characteristics

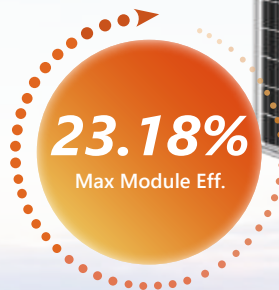
Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C

UNI T

UE720 T-66HBD

700~720W

N-type TOPCon Bifacial Dual Glass Solar Module



N-Type MBB Cell

New circuit design N-type cells, can increase the output power of 10~20W.



Low Light Features

Higher performance under low light environment.



Bifacial with dual glass

Module adopts 210*210mm half cells, bifacial module provide an additional 5%-25% output.



PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.



Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by TUV Nord.



Load Capacity

Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa done by TUV Nord.



Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System.

ISO14001: 2015: ISO Environmental Management System.

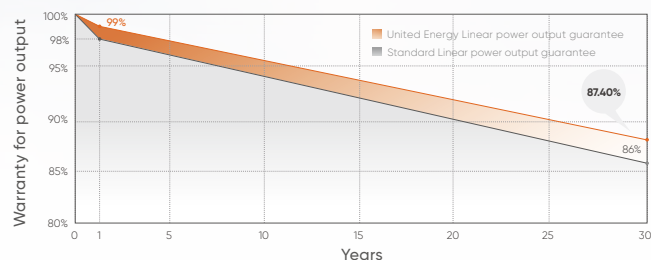
ISO45001: 2018: Occupation Health and Safety.

IEC62941: Guideline for module design qualification and type approval.

Quality Guarantee

15 year Materials Warranty

30 year Power Warranty



Electrical Parameters(STC*)

Module Type	700	705	710	715	720
Maximum power (Pmax/W)	700	705	710	715	720
Open Circuit Voltage (Voc/V)	48.20	48.40	48.60	48.80	49.00
Short Circuit Current (Isc/A)	18.48	18.52	18.57	18.61	18.65
Voltage at Maximum power (Vmp/V)	40.20	40.40	40.60	40.80	41.00
Current at Maximum Power (Imp/A)	17.41	17.45	17.49	17.52	17.56
Module Efficiency(%)	22.53	22.70	22.86	23.12	23.18

1. Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

Electrical Parameters(NMOT*)

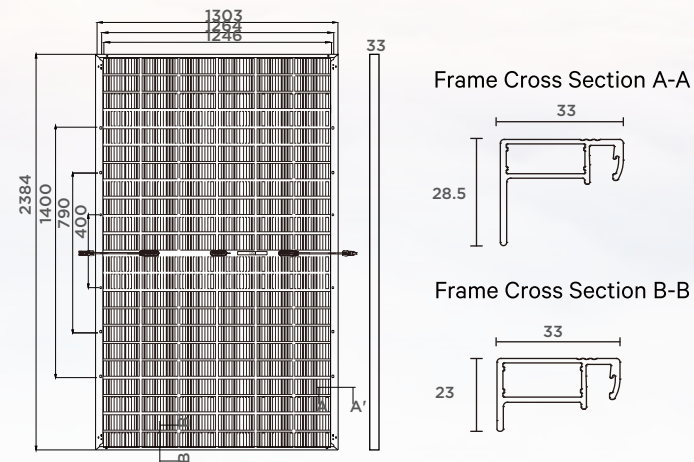
Power (Pmax/W)	534	538	541	545	549
Open Circuit Voltage (Voc/V)	45.75	45.95	46.15	46.35	46.55
Short Circuit Current (Isc/A)	14.82	14.86	14.91	14.94	14.97
Maximum power Voltage (Vmp/V)	38.00	38.20	38.35	38.55	38.75
Maximum power Current (Imp/A)	14.05	14.08	14.11	14.14	14.17

1. Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

Electrical Parameters(At 10% Bifacial Power Output)

Output Power (Pmax/W)	770	776	781	787	792
Open Circuit Voltage (Voc/V)	48.20	48.40	48.60	48.80	49.00
Short Circuit Current (Isc/A)	20.27	20.33	20.37	20.43	20.47
Maximum power Voltage (Vmp/V)	40.20	40.40	40.60	40.80	41.00
Maximum power Current (Imp/A)	19.15	19.21	19.24	19.29	19.32

Design(mm)



Design(mm)

Solar Cells	N-type Mono
No. of Cells	66*2 pcs
Dimensions	2384*1303*33mm
Weight	37.5kg
Glass	Double glass, 2.0mm/1.6mm
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 Bypass Diodes)
Output Cables	4mm ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa
Packaging	33pcs/box, 594pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0/+5W

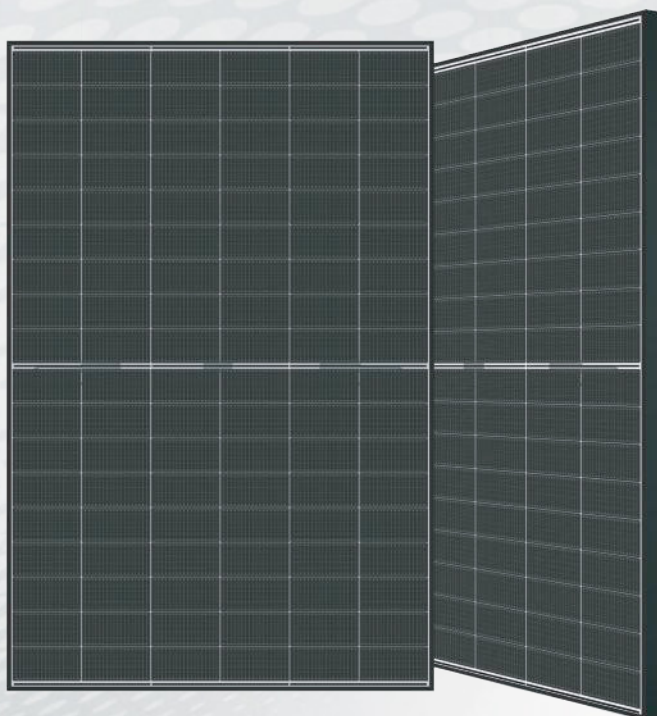
Temperature Characteristics

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C

UNI H

UE465H-54HBD

HJT Bifacial Half-cell Double-glass Solar Module



HJT Technology

Shorter current transport path, better low-light performance, and higher power generation.



Up to 90% Bifaciality

Natrual symmetrical bifacial structure bringing more energy yield from the backside.



Sealing with PIB

Stronger moisture resistance, greater air impermeability to extent module lifespan.



Higher reliability

Industrial leading product and performance warranty, ensuring modules' consistent outstanding performance.



Ideal Choice for Rooftop System

All-black aesthetic modules, designed for residential rooftop projects.

445-465W



Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System.

ISO14001: 2015: ISO Environmental Management System.

ISO45001: 2018: Occupation Health and Safety.

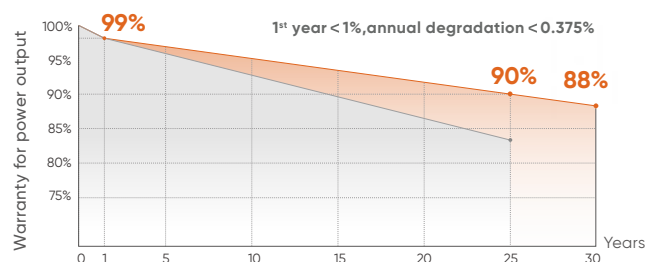
IEC62941: Guideline for module design qualification and type approval.



Quality Guarantee

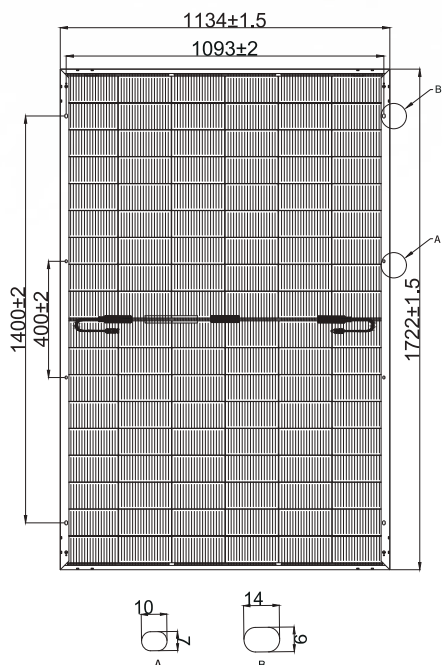
15 Year Materials Warranty

30 Year Power Warranty

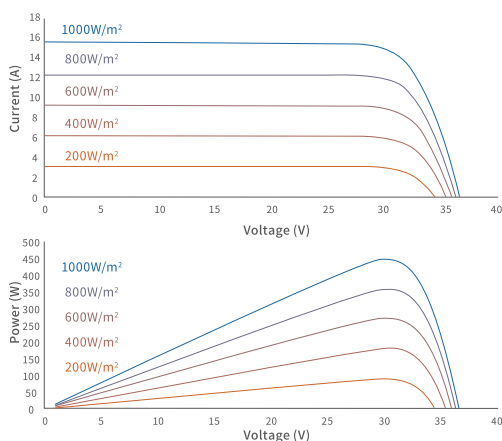


Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.

Engineering Drawings



I-V Curve



Shipping Configurations

Container Size	40HQ
Pallets Per Container (pcs)	26
Modules Per Pallet (pcs)	36
Modules Per Container	936

Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficient of Pmax	-0.26%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	0.04%/°C

Electrical Characteristics (STC*)

UE465H-54HBD	UE445	UE450	UE455	UE460	UE465
Maximum Power (Pmax)	445	450	455	460	465
Module Efficiency (%)	22.79	23.04	23.29	23.54	23.79
Optimum Operating Voltage (Vmp)	35.38	35.63	35.88	36.13	36.38
Optimum Operating Current (Imp)	12.58	12.63	12.68	12.73	12.78
Open Circuit Voltage (Voc)	42.18	42.44	42.70	42.96	43.22
Short Circuit Current (Isc)	13.10	13.15	13.20	13.25	13.30
Operating Module Temperature	-40 to +85°C				
Maximum System Voltage	DC1500V(IEC)				
Maximum Series Fuse	25A				
Power Tolerance	0~+5W				
Bifaciality	85%±5%				

STC: AM1.5, 1000W/m², 25 °C

BNPI**

Maximum Power (Pmax)	495	500	505	510	515
Optimum Operating Voltage (Vmp)	35.38	35.63	35.88	36.13	36.38
Optimum Operating Current (Imp)	14.00	14.04	14.08	14.12	14.16
Open Circuit Voltage (Voc)	42.18	42.44	42.70	42.96	43.22
Short Circuit Current (Isc)	14.57	14.61	14.65	14.69	14.73

BNPI: AM1.5, 1000W/m², 135W/m², 25 °C

NOCT**

Maximum Power (Pmax)	338	342	346	350	354
Optimum Operating Voltage (Vmp)	33.34	33.60	33.85	34.11	34.35
Optimum Operating Current (Imp)	10.14	10.18	10.22	10.26	10.30
Open Circuit Voltage (Voc)	40.26	40.50	40.75	40.99	41.34
Short Circuit Current (Isc)	10.56	10.60	10.64	10.68	10.72

NOTC: AM1.5, 800W/m², 20 °C, 1m/s.

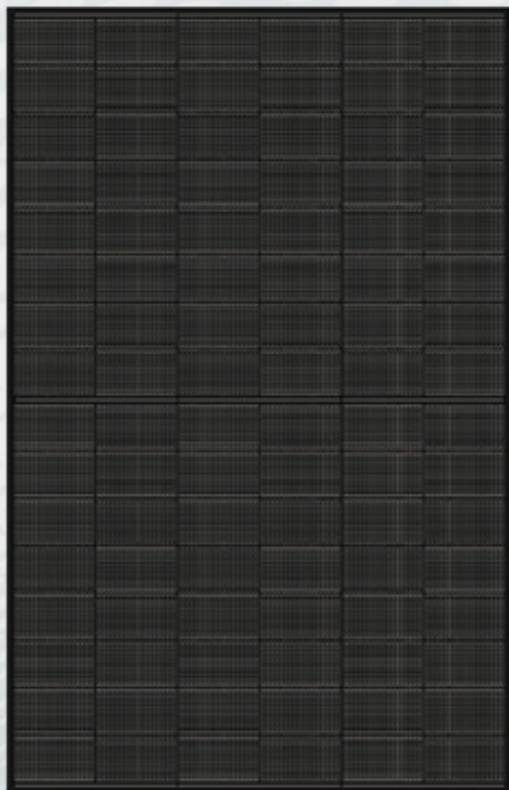
Mechanical Characteristics

Cell Type	HJT
Cell Connection	108(6*18)
Module Dimension	1722*1134*30mm
Weight	26kg
Junction Box	IP68
Output Cable	4mm ² ; 300mm or customized; UV resistant
Connectors Type	MC4 original / MC4 compatible
Frame	Anodised aluminum alloy(Black)
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	Double glass, 2.0mm/1.6mm

Safety & Warranty

Safety Class	Class II
Product Warranty	15Years Workmanship
Performance Warranty	30Years Linear Warranty

* Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.



UNI H

UE485H-48HBD

HJT Rectangle Bifacial Half-cell Double-glass Solar Module



HJT Technology

Shorter current transport path, better low-light performance, and higher power generation.



Up to 90% Bifaciality

Natrual symmetrical bifacial structure bringing more energy yield from the backside.



Sealing with PIB

Stronger moisture resistance, greater air impermeability to extent module lifespan.



Higher reliability

Industrial leading product and performance warranty, ensuring modules' consistent outstanding performance.



Ideal Choice for Rooftop System

All-black aesthetic modules, designed for residential rooftop projects.

465-485W



Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System.

ISO14001: 2015: ISO Environmental Management System.

ISO45001: 2018: Occupation Health and Safety.

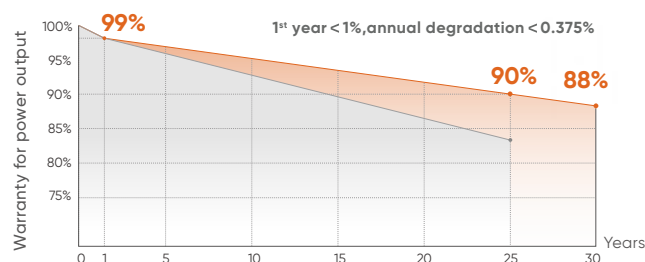
IEC62941: Guideline for module design qualification and type approval.



Quality Guarantee

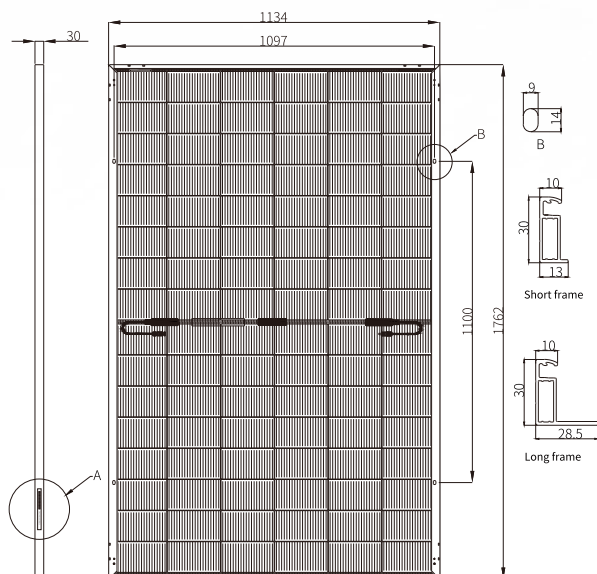
15 Year Materials Warranty

30 Year Power Warranty

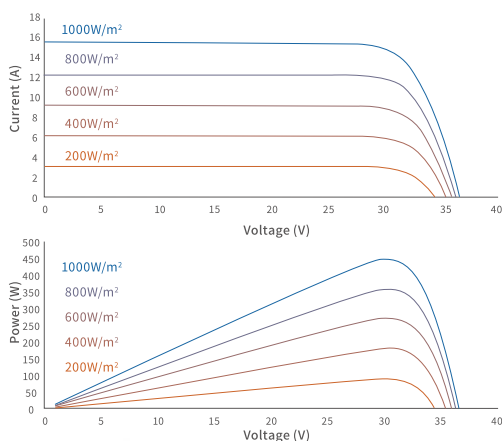


Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.

Engineering Drawings



I-V Curve



Shipping Configurations

Container Size	40HQ
Pallets Per Container (pcs)	26
Modules Per Pallet (pcs)	36
Modules Per Container	936

Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficient of Pmax	-0.26%/ °C
Temperature Coefficient of Voc	-0.24%/ °C
Temperature Coefficient of Isc	0.04%/ °C

Electrical Characteristics (STC*)

	UE465	UE470	UE475	UE480	UE485
Maximum Power (Pmax)	465	470	475	480	485
Module Efficiency (%)	23.2	23.4	23.6	23.8	24.0
Optimum Operating Voltage (Vmp)	31.16	31.27	31.38	31.49	31.60
Optimum Operating Current (Imp)	14.93	15.04	15.15	15.26	15.37
Open Circuit Voltage (Voc)	37.02	37.12	37.22	37.32	37.42
Short Circuit Current (Isc)	15.86	15.97	16.08	16.19	16.30
Operating Module Temperature	-40 to +85°C				
Maximum System Voltage	DC1500V(IEC)				
Maximum Series Fuse	30A				
Power Tolerance	0~+5W				
Bifaciality	85%±5%				

STC: AM1.5, 1000W/m², 25 °C

BNPI**

Maximum Power (Pmax)	520	525	530	535	540
Optimum Operating Voltage (Vmp)	31.27	31.38	31.49	31.60	31.71
Optimum Operating Current (Imp)	16.69	16.82	16.95	17.08	17.21
Open Circuit Voltage (Voc)	37.15	37.25	37.35	37.45	37.55
Short Circuit Current (Isc)	17.79	17.91	18.03	18.15	18.27

BNPI: AM1.5, 1000W/m², 135W/m², 25 °C

NOCT**

Maximum Power (Pmax)	355	358	361	365	369
Optimum Operating Voltage (Vmp)	29.76	29.86	30.16	30.46	30.76
Optimum Operating Current (Imp)	11.93	12.02	12.11	12.21	12.31
Open Circuit Voltage (Voc)	35.33	35.43	35.52	35.61	35.70
Short Circuit Current (Isc)	12.68	12.76	12.85	12.93	13.01

NOTC: AM1.5, 800W/m², 20 °C, 1m/s.

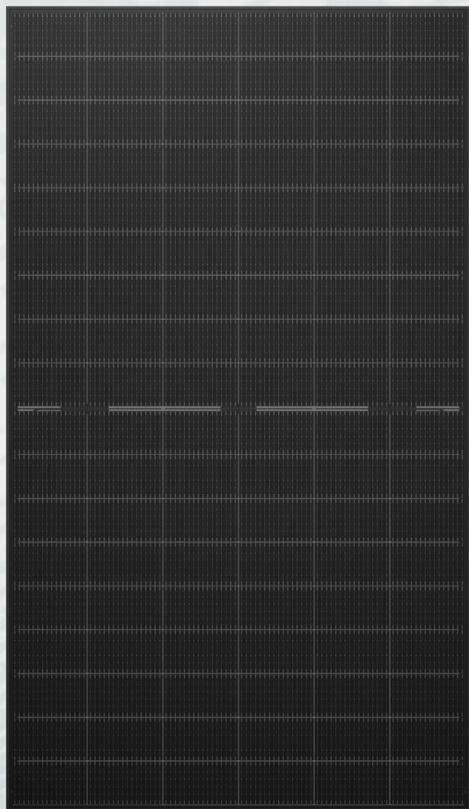
Mechanical Characteristics

Cell Type	HJT Mono
Cell Connection	96(6*16)
Module Dimension	1762*1134*30mm
Weight	21.6kg
Junction Box	IP68
Output Cable	4mm²; 300mm or customized; UV resistant
Connectors Type	MC4 original / MC4 compatible
Frame	Anodised aluminum alloy(Black)
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	Double glass, 2.0mm/1.6mm

Safety & Warranty

Safety Class	Class II
Product Warranty	15Years Workmanship
Performance Warranty	30Years Linear Warranty

* Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.



UNI H

UE540H-54HBD

HJT Rectangle Bifacial Half-cell Double-glass Solar Module



HJT Technology

Shorter current transport path, better low-light performance, and higher power generation.



Up to 90% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.



Sealing with PIB

Stronger moisture resistance, greater air impermeability to extend module lifespan.



Higher reliability

Industrial leading product and performance warranty, ensuring modules' consistent outstanding performance.



Ideal Choice for Rooftop System

All-black aesthetic modules, designed for residential rooftop projects.

520-540W



Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System.

ISO14001: 2015: ISO Environmental Management System.

ISO45001: 2018: Occupation Health and Safety.

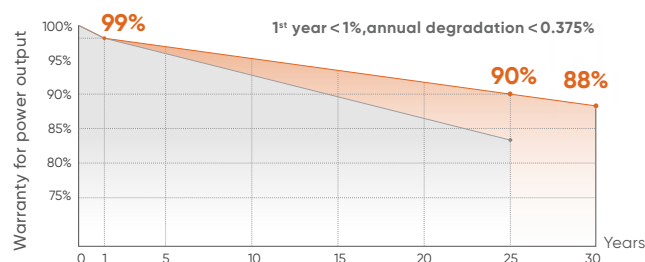
IEC62941: Guideline for module design qualification and type approval.



Quality Guarantee

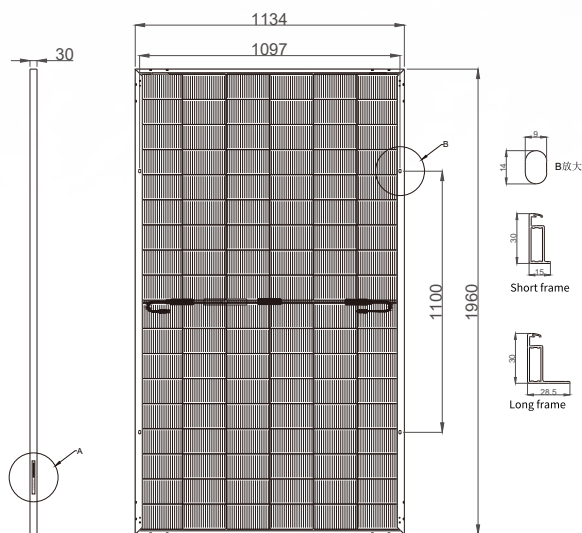
15 Year Materials Warranty

30 Year Power Warranty

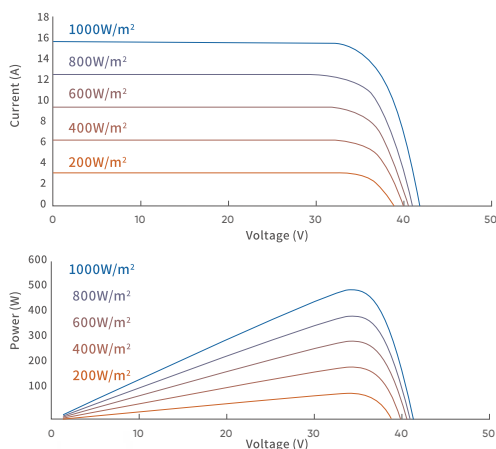


Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.

Engineering Drawings



I-V Curve



Shipping Configurations

Container Size	40HQ
Pallets Per Container (pcs)	24
Modules Per Pallet (pcs)	36
Modules Per Container	864

Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficient of Pmax	-0.26%/ °C
Temperature Coefficient of Voc	-0.24%/ °C
Temperature Coefficient of Isc	0.04%/ °C

Electrical Characteristics (STC*)

UE540H-54HBD	UE520	UE525	UE530	UE535	UE540
Maximum Power (Pmax)	520	470	475	480	485
Module Efficiency (%)	23.4	23.6	23.8	24.0	24.2
Optimum Operating Voltage (Vmp)	34.60	34.71	34.82	34.93	35.04
Optimum Operating Current (Imp)	15.04	15.14	15.24	15.34	15.44
Open Circuit Voltage (Voc)	41.20	41.31	41.42	41.43	41.54
Short Circuit Current (Isc)	15.92	16.03	16.13	16.23	16.33
Operating Module Temperature	-40 to +85°C				
Maximum System Voltage	DC1500V(IEC)				
Maximum Series Fuse	30A				
Power Tolerance	0~+5W				
Bifaciality	85%±5%				

STC: AM1.5, 1000W/m², 25 °C

BNPI**

Maximum Power (Pmax)	583	588	574	579	585
Optimum Operating Voltage (Vmp)	34.72	34.83	34.94	35.05	35.16
Optimum Operating Current (Imp)	16.80	16.91	17.02	17.13	17.24
Open Circuit Voltage (Voc)	41.34	41.45	41.56	41.67	41.78
Short Circuit Current (Isc)	17.85	17.97	18.09	18.21	18.33

BNPI: AM1.5, 1000W/m², 135W/m², 25 °C

NOCT**

Maximum Power (Pmax)	397	401	405	409	413
Optimum Operating Voltage (Vmp)	33.03	33.13	33.23	33.33	33.43
Optimum Operating Current (Imp)	12.02	12.10	12.18	12.26	12.34
Open Circuit Voltage (Voc)	39.32	39.42	39.52	39.62	39.72
Short Circuit Current (Isc)	12.72	12.77	12.86	12.95	13.04

NOCT: AM1.5, 800W/m², 20 °C, 1m/s.

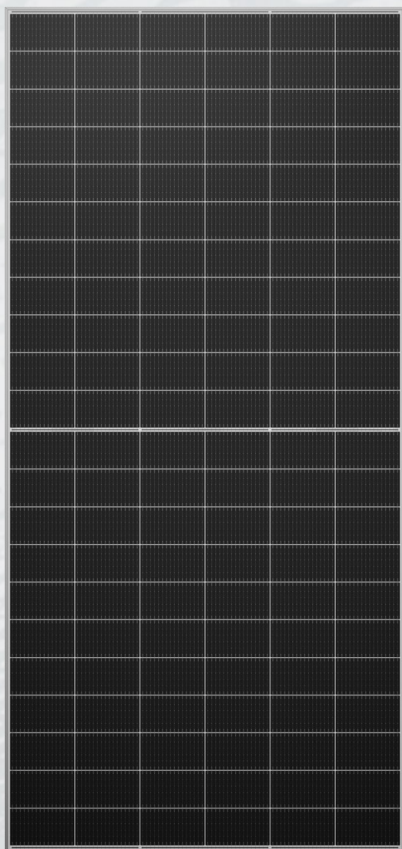
Mechanical Characteristics

Cell Type	HJT Mono
Cell Connection	108(6*18)
Module Dimension	1960*1134*30mm
Weight	27.1kg
Junction Box	IP68
Output Cable	4mm²; 300mm or customized; UV resistant
Connectors Type	MC4 original / MC4 compatible
Frame	Anodised aluminum alloy(Black)
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	Double glass, 2.0mm/1.6mm

Safety & Warranty

Safety Class	Class II
Product Warranty	15Years Workmanship
Performance Warranty	30Years Linear Warranty

* Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.



UNI H

UE650H-66HBD

HJT Rectangle Bifacial Half-cell Double-glass Solar Module



HJT Technology

Shorter current transport path, better low-light performance, and higher power generation.



Up to 90% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.



Sealing with PIB

Stronger moisture resistance, greater air impermeability to extend module lifespan.



Higher reliability

Industrial leading product and performance warranty, ensuring modules' consistent outstanding performance.



Ideal Choice for Rooftop System

All-black aesthetic modules, designed for residential rooftop projects.

630-650W



Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System.

ISO14001: 2015: ISO Environmental Management System.

ISO45001: 2018: Occupation Health and Safety.

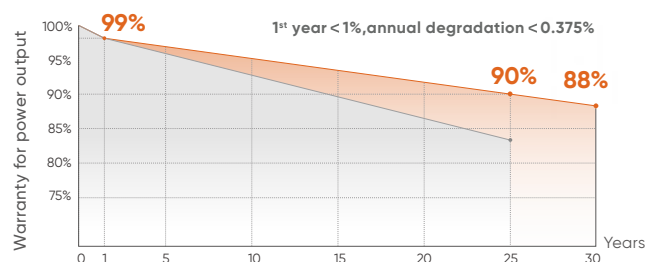
IEC62941: Guideline for module design qualification and type approval.



Quality Guarantee

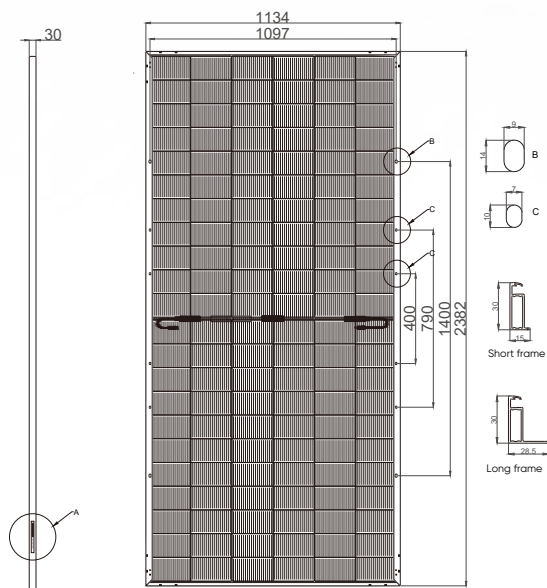
15 Year Materials Warranty

30 Year Power Warranty

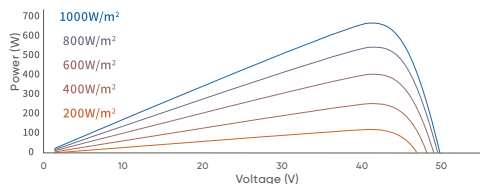
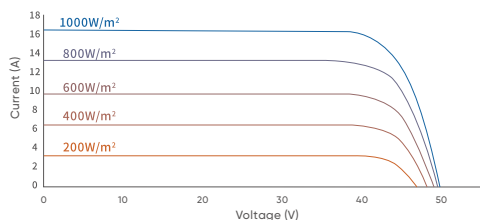


Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.

Engineering Drawings



I-V Curve



Shipping Configurations

Container Size	40HQ
Pallets Per Container (pcs)	20
Modules Per Pallet (pcs)	36
Modules Per Container	720

Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficient of Pmax	-0.26%/ °C
Temperature Coefficient of Voc	-0.24%/ °C
Temperature Coefficient of Isc	0.04%/ °C

Electrical Characteristics (STC*)

UE650H-66HBD	UE630	UE635	UE640	UE645	UE650
Maximum Power (Pmax)	630	635	640	645	650
Module Efficiency (%)	23.30	23.50	23.70	23.90	24.10
Optimum Operating Voltage (Vmp)	41.23	41.32	41.41	41.50	41.59
Optimum Operating Current (Imp)	15.30	15.39	15.47	15.55	15.63
Open Circuit Voltage (Voc)	49.34	49.43	49.52	49.61	49.70
Short Circuit Current (Isc)	16.16	16.26	16.36	16.46	16.56
Operating Module Temperature	-40 to +85°C				
Maximum System Voltage	DC1500V(IEC)				
Maximum Series Fuse	30A				
Power Tolerance	0~+5W				
Bifaciality	85%±5%				

STC: AM1.5, 1000W/m², 25 °C

BNPI**

Maximum Power (Pmax)	706	712	717	723	728
Optimum Operating Voltage (Vmp)	41.37	41.46	41.55	41.64	41.73
Optimum Operating Current (Imp)	17.08	17.18	17.27	17.37	17.47
Open Circuit Voltage (Voc)	49.51	49.60	49.69	49.78	49.87
Short Circuit Current (Isc)	18.12	18.24	18.35	18.46	18.57

BNPI: AM1.5, 1000W/m², 135W/m², 25 °C

NOCT**

Maximum Power (Pmax)	481	484	488	492	496
Optimum Operating Voltage (Vmp)	39.34	39.42	39.52	39.63	39.73
Optimum Operating Current (Imp)	12.23	12.30	12.36	12.43	12.49
Open Circuit Voltage (Voc)	47.09	47.18	47.26	47.35	47.44
Short Circuit Current (Isc)	12.92	13.00	13.08	13.16	13.23

NOCT: AM1.5, 800W/m², 20 °C, 1m/s.

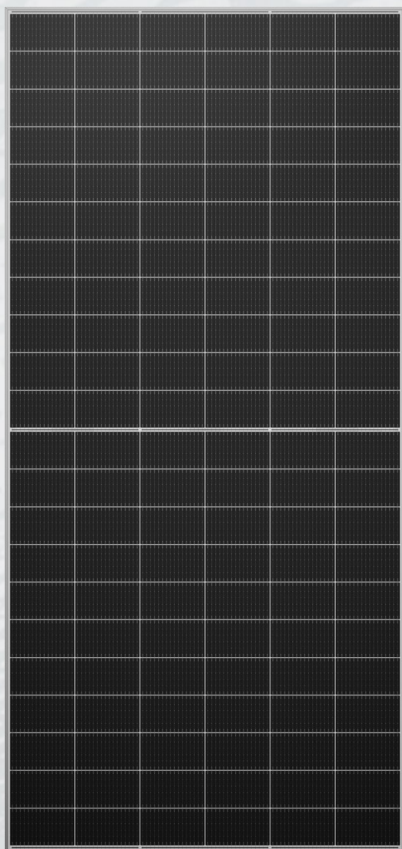
Mechanical Characteristics

Cell Type	HJT Mono
Cell Connection	132(6*22)
Module Dimension	2382*1134*30mm
Weight	32.3kg
Junction Box	IP68
Output Cable	4mm²; 300mm or customized; UV resistant
Connectors Type	MC4 original / MC4 compatible
Frame	Anodised aluminum alloy(Black)
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	Double glass, 2.0mm/1.6mm

Safety & Warranty

Safety Class	Class II
Product Warranty	15Years Workmanship
Performance Warranty	30Years Linear Warranty

* Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.



UNI H

UE750H-66HBD

HJT Bifacial Half-cell Double-glass Solar Module



HJT Technology

Shorter current transport path, better low-light performance, and higher power generation.



Up to 90% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.



Sealing with PIB

Stronger moisture resistance, greater air impermeability to extend module lifespan.



Higher reliability

Industrial leading product and performance warranty, ensuring modules' consistent outstanding performance.



Ideal Choice for Rooftop System

All-black aesthetic modules, designed for residential rooftop projects.

730-750W



Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System.

ISO14001: 2015: ISO Environmental Management System.

ISO45001: 2018: Occupation Health and Safety.

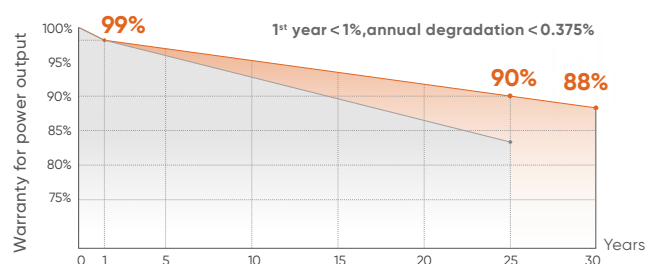
IEC62941: Guideline for module design qualification and type approval.



Quality Guarantee

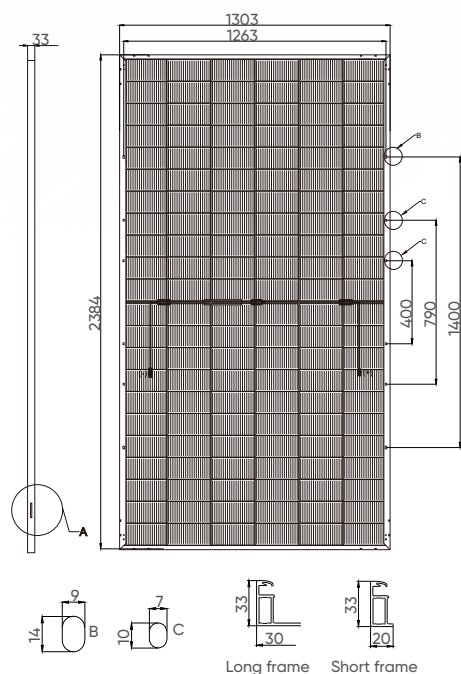
15 Year Materials Warranty

30 Year Power Warranty



Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.

Engineering Drawings



Electrical Characteristics (STC*)

UE750H-66HBD	UE730	UE735	UE740	UE745	UE750
Maximum Power (P _{max})	730	735	740	745	750
Module Efficiency (%)	23.5	23.7	23.8	24.0	24.10
Optimum Operating Voltage (V _{mp})	43.32	42.41	42.50	42.59	42.68
Optimum Operating Current (I _{mp})	17.26	17.34	17.42	17.50	17.58
Open Circuit Voltage (V _{oc})	50.37	50.47	50.57	50.67	50.77
Short Circuit Current (I _{sc})	18.35	18.44	18.53	18.62	18.71
Operating Module Temperature	-40 to +85°C				
Maximum System Voltage	DC1500V(IEC)				
Maximum Series Fuse	30A				
Power Tolerance	0~+5W				
Bifaciality	85%±5%				

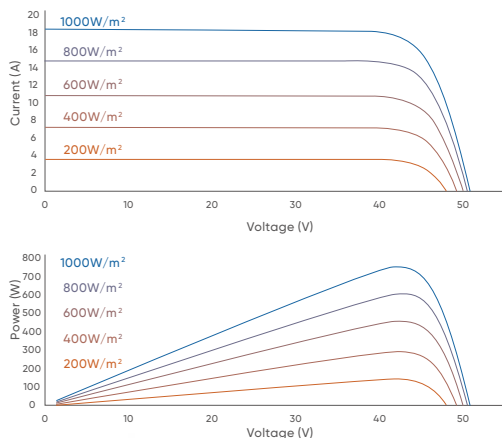
STC: AM1.5, 1000W/m², 25 °C

BNPI**

Maximum Power (P _{max})	818	824	829	835	841
Optimum Operating Voltage (V _{mp})	42.47	42.56	42.65	42.74	42.83
Optimum Operating Current (I _{mp})	19.28	19.37	19.46	19.55	19.64
Open Circuit Voltage (V _{oc})	50.54	50.65	50.75	50.85	50.95
Short Circuit Current (I _{sc})	20.58	20.68	20.78	20.88	20.98

BNPI: AM1.5, 1000W/m², 135W/m², 25 °C

I-V Curve



NOCT**

Maximum Power (P _{max})	557	561	565	568	572
Optimum Operating Voltage (V _{mp})	40.41	40.50	40.58	40.67	40.76
Optimum Operating Current (I _{mp})	13.79	13.86	13.92	13.99	14.05
Open Circuit Voltage (V _{oc})	48.08	48.17	48.27	48.36	48.46
Short Circuit Current (I _{sc})	14.67	14.74	14.81	14.88	14.95

NOCT: AM1.5, 800W/m², 20 °C, 1m/s.

Mechanical Characteristics

Cell Type	HJT Mono
Cell Connection	132(6*22)
Module Dimension	2384*1303*33mm
Weight	37.9kg
Junction Box	IP68
Output Cable	4mm ² ; 300mm or customized; UV resistant
Connectors Type	MC4 original / MC4 compatible
Frame	Anodised aluminum alloy(Black)
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	Double glass, 2.0mm/1.6mm

Shipping Configurations

Container Size	40HQ
Pallets Per Container (pcs)	18
Modules Per Pallet (pcs)	33
Modules Per Container	594

Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficient of P _{max}	-0.26%/ °C
Temperature Coefficient of V _{oc}	-0.24%/ °C
Temperature Coefficient of I _{sc}	0.04%/ °C

Safety & Warranty

Safety Class	Class II
Product Warranty	15Years Workmanship
Performance Warranty	30Years Linear Warranty

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CASE INTRODUCTION



01

30kw Roof System In Bulgaria

Type:UE590T-72HBD

Quantity:52pcs



02

40kw Residential System In Bangkok

Type:UE560M-72H

Quantity:72pcs

CASE INTRODUCTION



03

4MW Commercial Project In Germany

Type:UE590T-72H

Quantity:6856pcs



04

1.5MW Industry Roof Project In Hefei China

Type:UE560M-72H

Quantity:2688pcs

CASE INTRODUCTION



05

3MW Commercial System In Uzbekistam

Type:UE720H-66HBD

Quantity:4200pcs

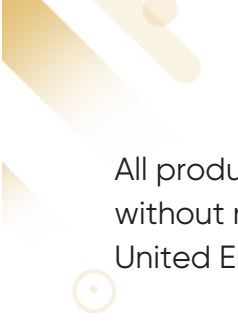


06

210KW Commercial Power Plant in Nicaragua,Central America

Type:UE380M-60H

Quantity:550pcs



All products and service described and technical data are subject to change at any item without notice.

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UNITED ENERGY

United Energy Co., Ltd. is a company dedicated to providing one-stop solutions for PV and Energy Storage Systems.

Focuses on providing customers with efficient, safe, and smart energy solutions to meet the growing energy demand while contributing to environmental protection.

More than 15 years of experience since 2009, UE has finalized more than 8,000 projects in more than 150 countries and regions around the world, including household, commercial, and large power stations.

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