



UNITECH

For Building and Construction Materials

RENEWABLE ENERGY Products



PV SOLAR PANEL Systems



We are a “Solutions Provider” company, specialized in the Design, Manufacturing and Trading of Building and Construction Materials in the region.

Unitech is a member of the IKK Group of Companies. It has been present in the market since 1978 and has grown to become one of the leading companies in the supply of building and construction materials. The company is an ISO QMS 9001:2015 certified company and is a member of the US Green Building Council.

Unitech has an extensive presence covering various cities through the GCC and MENA countries: Jeddah, Riyadh, Dammam, Dubai, Abu Dhabi, Manama, Kuwait, Amman, Beirut and Cairo. The company is present in Europe via its design and engineering office in Stuttgart.

Our vision is to be the Customer's First Choice.

Our mission is to have the conviction to be the leader in building/construction industry through:

- Providing Excellence in Services with Passionate and Educated Sales Force
- Strengthen Culture through Unified Sense of Purpose
- Innovative Product Range which is Customer Centric
- Reputable and Quality Service Company
- Attracting, Engaging and Retaining Talent

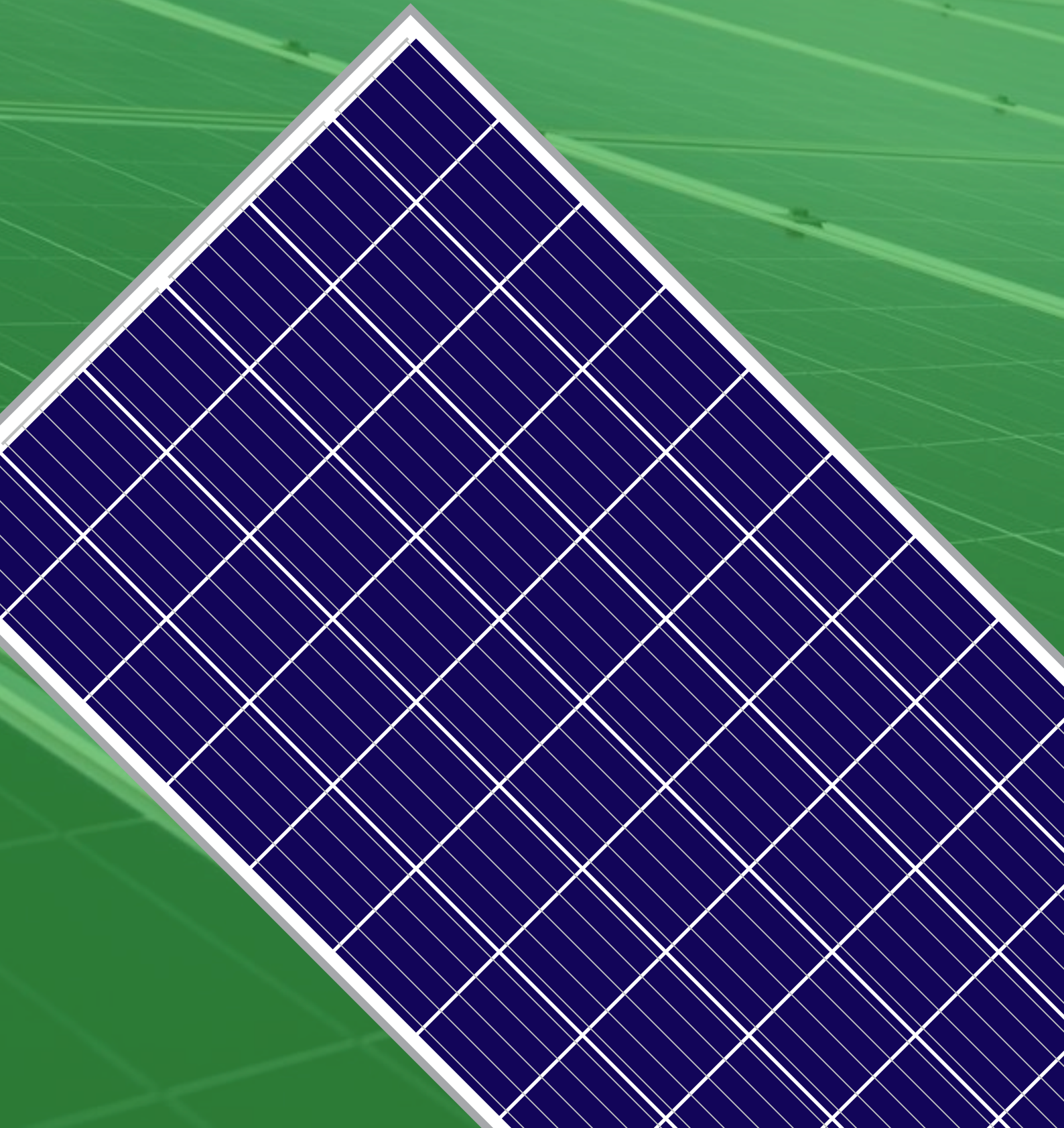
Unitech's core values are based on:

- Excellence: Highest Quality.
- Integrity: Outstanding Customer Service.
- Service with Pride: Highly Effective Business Operation.



**SOLAR PANEL
TYPES**

STANDARD SINGLE GLASS FULL CELL



ZXP6-72 SERIES

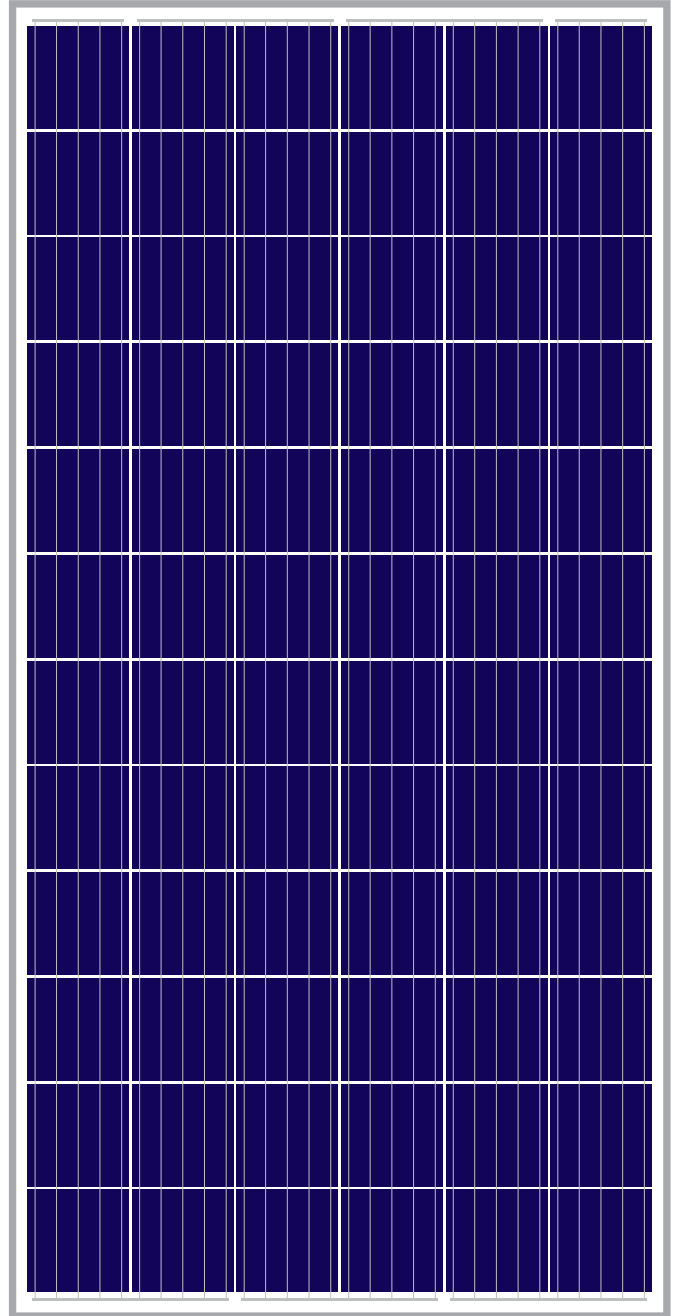
SOLAR 5BB POLYCRYSTALLINE PV MODULE

325W-330W-335W-340W-345W-350W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXP6-72 polycrystalline modules by UNITECH SOLAR represent a highly flexible solution for diverse installation types, from industrial rooftop plants to small home PV systems or large ground surfaces. This allows you to produce clean energy while reducing your energy bill.

UNITECH SOLAR'S ZXP6-72 polycrystalline solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product. The linear warranty on product outputs further ensures increased security and return on investments over time.

12 years product warranty/25 years output warranty
0.7% Annual Degradation over 25 years



5 Busbar Solar Cell

No power loss thanks to improved temperature co-efficient caused by 5 busbar solar cell



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXP6-72 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Certified to withstand the most challenging environmental conditions

5400 Pa snow load
2400 Pa wind load



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	27
Piece/Container	648

ELECTRICAL PROPERTIES | STC*

Module Type	ZXP6 72 325/P	ZXP6 72 330/P	ZXP6 72 335/P	ZXP6 72340/P	ZXP6 72 345/P	ZXP6 72 350/P
Nominal Power Watt Pmax(W)	325	330	335	340	345	350
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	37.3	37.5	37.7	37.9	38.1	38.3
Maximum Power Current Imp(A)	8.72	8.8	8.89	8.98	9.06	9.14
Open Circuit Voltage Voc(V)	46.6	46.8	47	47.2	47.4	47.6
Short Circuit Current Isc(A)	9.12	9.16	9.22	9.28	9.34	9.42
Module Efficiency %	16.72	16.97	17.23	17.49	17.74	18.00

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	240.4	244.2	248.3	253	256.9	259.6
Maximum Power Voltage Vmpp(V)	34.8	35.2	35.4	35.8	36.1	36.1
Maximum Power Current Impp(A)	6.9	6.93	7.02	7.06	7.11	7.2
Open Circuit Voltage Voc(V)	42.9	43.1	43.3	43.4	43.6	43.8
Short Circuit Current Isc(A)	7.38	7.42	7.46	7.51	7.56	7.63

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	45°C ±2°C
Temperature coefficient of Pmax	-0.40%/°C
Temperature coefficient of Voc	-0.31%/°C
Temperature coefficient of Isc	0.06%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

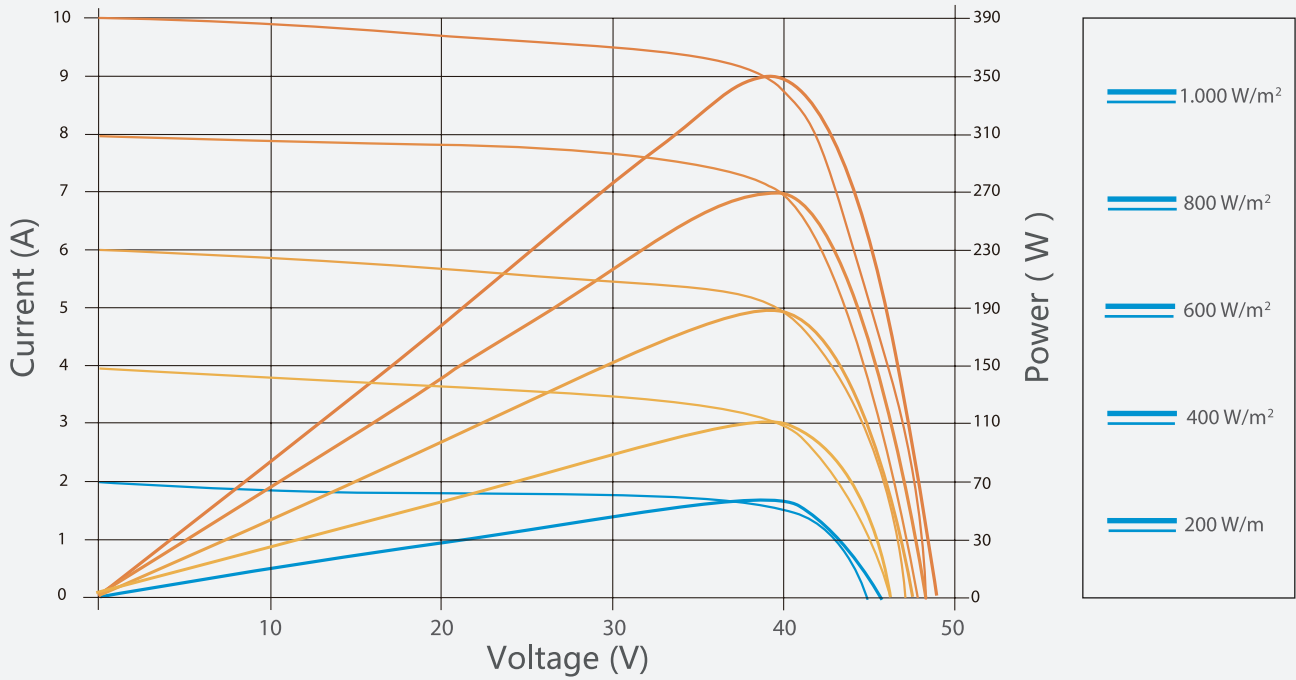
WORKING CONDITIONS

Maximum system voltage	1000 / 1 500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	15 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

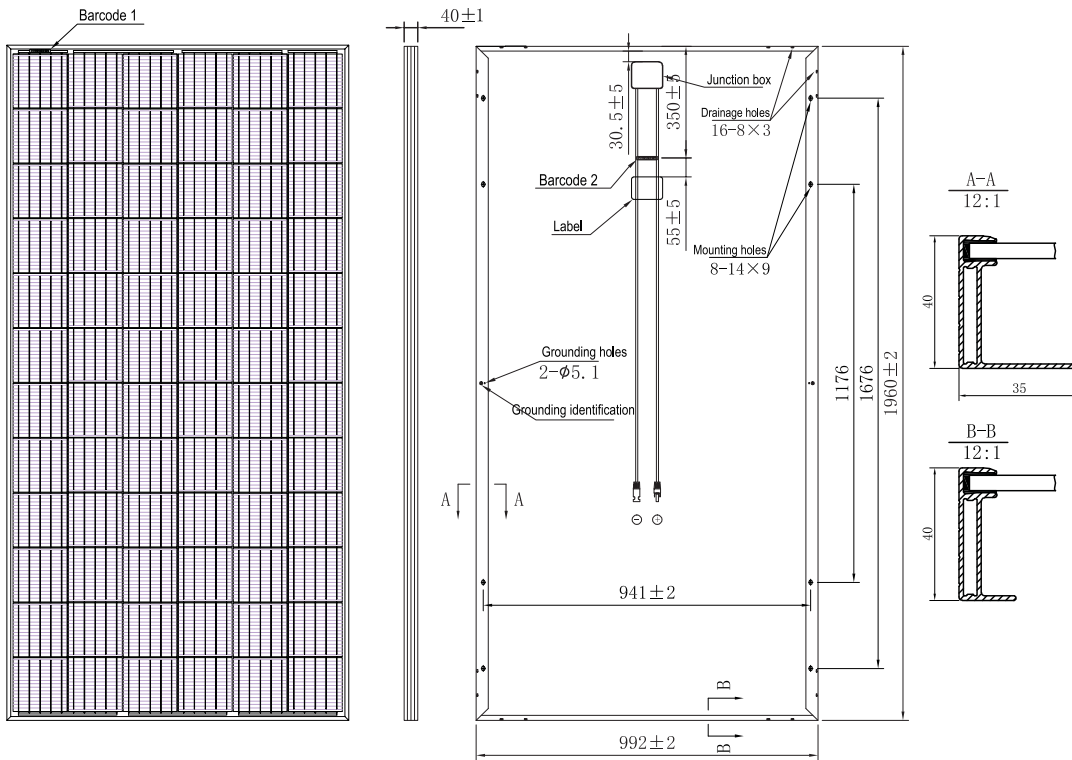
MECHANICAL DATA

Solar cells	Poly 156.75x156.75 mm
Cells orientation	72 (6x12)
Module dimension	1960x992x40 mm
Weight	22.5 kg
Glass	High transparency, low iron,tempered Glass 3.2mm (AR-coating)
Junction box	IP 68, 3 diodes
Cables	4mm ² , 1100 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



ZXM6-60 SERIES

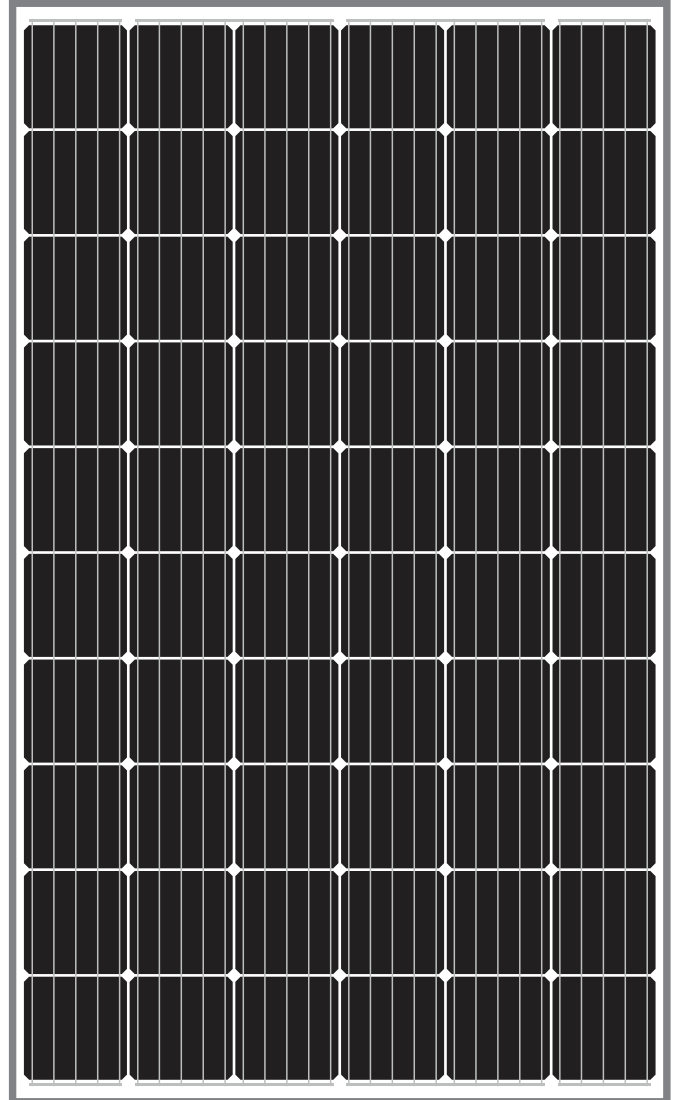
SOLAR 5BB MONOCRYSTALLINE PV MODULE

295W-300W-305W-310W-315W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-60 monocrystalline modules by UNITECH SOLAR represent a highly flexible solution for diverse installation types, from industrial rooftop plants to small home PV systems or large ground surfaces. This allows you to produce clean energy while reducing your energy bill.

UNITECH SOLAR'S ZXP6-72 polycrystalline solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product. The linear warranty on product outputs further ensures increased security and return on investments over time.

12 years product warranty/25 years output warranty
0.55% Annual Degradation over 25 years



Tier 1 & Bankable

Well known trade mark in China; Tier 1 bankable brand globally



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-60 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Certified to withstand the most challenging environmental conditions

5400 Pa snow load
2400 Pa wind load



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	27
Piece/Container	756

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-60-295/M	ZXM6-60-300/M	ZXM6-60-305/M	ZXP6 72340/P	ZXM6-60-310/M
Nominal Power Watt Pmax(W)	295	300	305	310	315
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	32.2	32.4	32.7	32.9	33.1
Maximum Power Current Imp(A)	9.17	9.26	9.33	9.43	9.52
Open Circuit Voltage Voc(V)	39.5	39.7	39.9	40.1	40.3
Short Circuit Current Isc(A)	9.67	9.75	9.85	9.95	10.05
Module Efficiency %	18.02	18.33	18.63	18.94	19.24

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	219.0	222.3	225.8	229.3	232.4
Maximum Power Voltage Vmpp(V)	29.8	30.2	30.4	30.6	30.6
Maximum Power Current Impp(A)	7.34	7.36	7.42	7.49	7.61
Open Circuit Voltage Voc(V)	36.6	36.7	36.9	37.1	37.3
Short Circuit Current Isc(A)	7.81	7.81	7.88	7.96	8.12

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	45°C ±2°C
Temperature coefficient of Pmax	-0.37%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

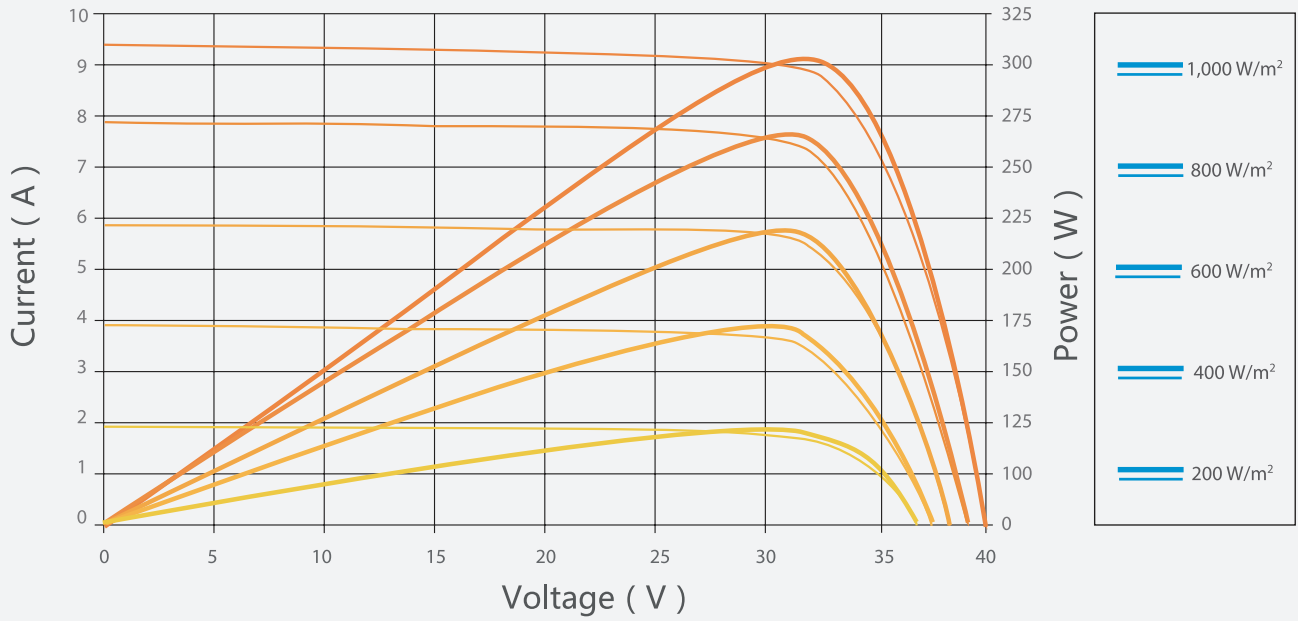
WORKING CONDITIONS

Maximum system voltage	1000 / 1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	15 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

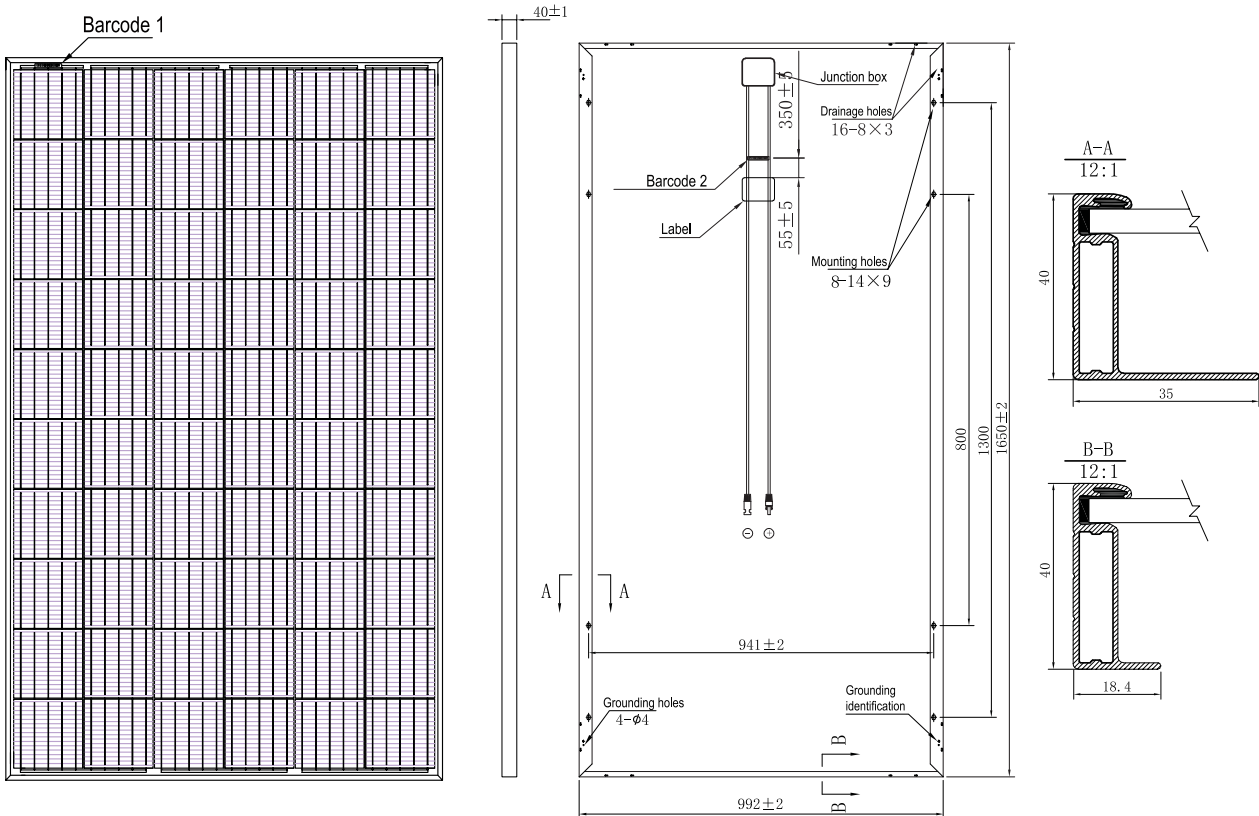
MECHANICAL DATA

Solar cells	Mono 156.75×156.75 mm
Cells orientation	60(6×10)
Module dimension	1650×992×40 mm
Weight	19 kg
Glass	High transparency,low iron,tempered Glass 3.2 mm (AR-coating)
Junction box	IP 68,3 diodes
Cables	4 mm ² ,900 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



STANDARD SINGLE GLASS HALF CELL

The image features a green-tinted photograph of a solar panel array. The panels are arranged in rows, with visible grid lines and interconnectors. The text 'STANDARD SINGLE GLASS HALF CELL' is overlaid in white, bold, sans-serif font in the upper right quadrant.

ZXM6-H120 SERIES

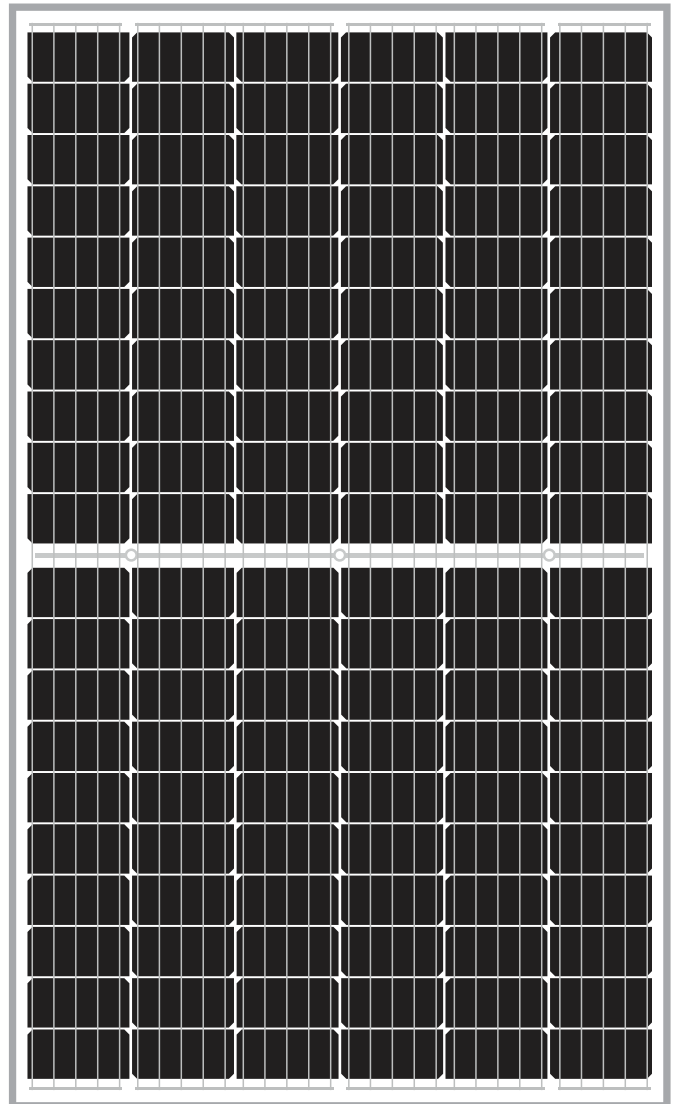
SOLAR 5BB HALF-CELL MONOCRYSTALLINE PV MODULE

300W-305W-310W-315W-320W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-H120 monocrystalline modules by UNITECH SOLAR (power output 300 up to 320Wp), represent a highly flexible solution for diverse installation types, from industrial rooftop plants to small home PV systems or large ground surfaces. This allows you to produce clean energy while reducing your energy bill.

UNITECH SOLAR'S ZXM6-H120 monocrystalline solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product. The linear warranty on product outputs further ensures increased security and return on investments over time.

12 years product warranty/25 years output warranty
0.55% Annual Degradation over 25 years



Tier 1 & Bankable

Well known trade mark in China; Tier 1 bankable brand globally



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-H120 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Certified to withstand the most challenging environmental conditions

5400 Pa snow load
2400 Pa wind load



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	30
Piece/Container	840

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-H120-300/M	ZXM6-H120-305/M	ZXM6-H120-310/M	ZXM6-H120-315/M	ZXM6-H120-320/M
Nominal Power Watt Pmax(W)	300	305	310	315	320
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	32.5	32.7	33.0	33.2	33.4
Maximum Power Current Imp(A)	9.24	9.33	9.40	9.49	9.59
Open Circuit Voltage Voc(V)	39.4	39.6	39.8	40.0	40.2
Short Circuit Current Isc(A)	9.90	9.97	10.03	10.10	10.15
Module Efficiency %	18.05	18.36	18.66	18.96	19.26

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	223.2	226.7	230.2	233.6	237.4
Maximum Power Voltage Vmpp(V)	29.9	30.1	30.3	30.5	30.8
Maximum Power Current Imp(A)	7.47	7.54	7.59	7.65	7.71
Open Circuit Voltage Voc(V)	36.6	36.8	36.9	37.1	37.3
Short Circuit Current Isc(A)	8.00	8.06	8.10	8.16	8.20

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	45°C ±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

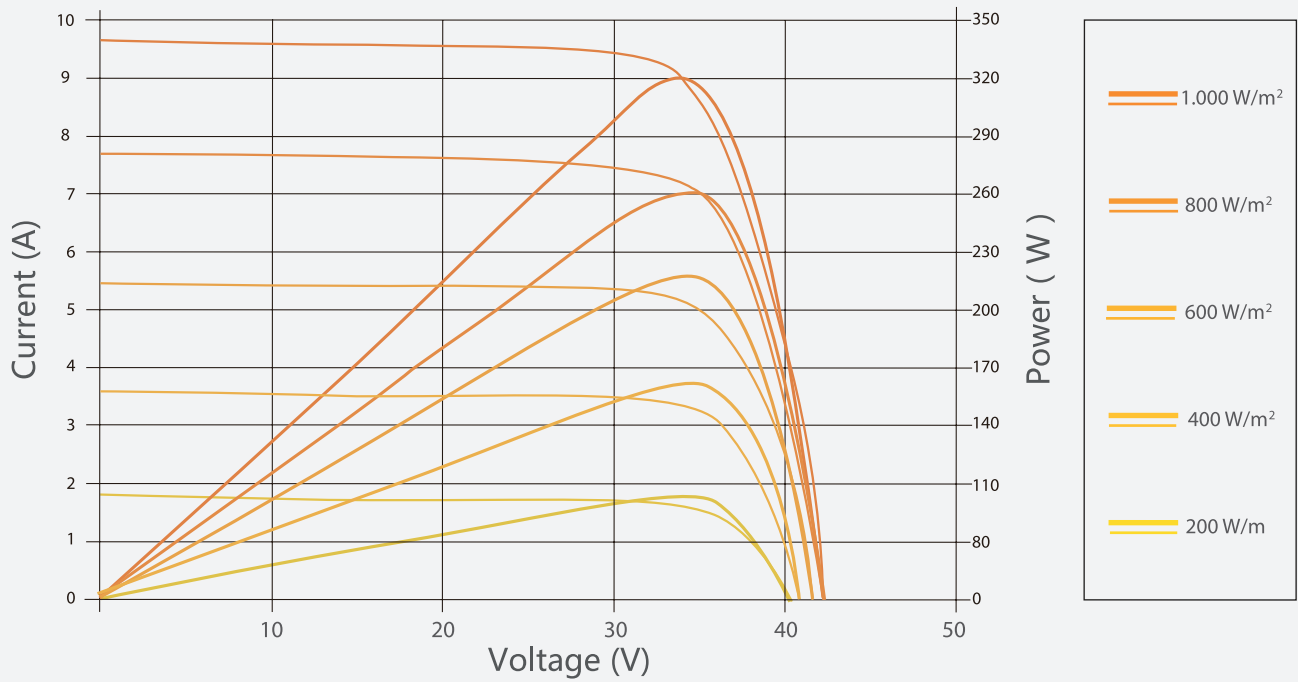
WORKING CONDITIONS

Maximum system voltage	1000 / 1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	15 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

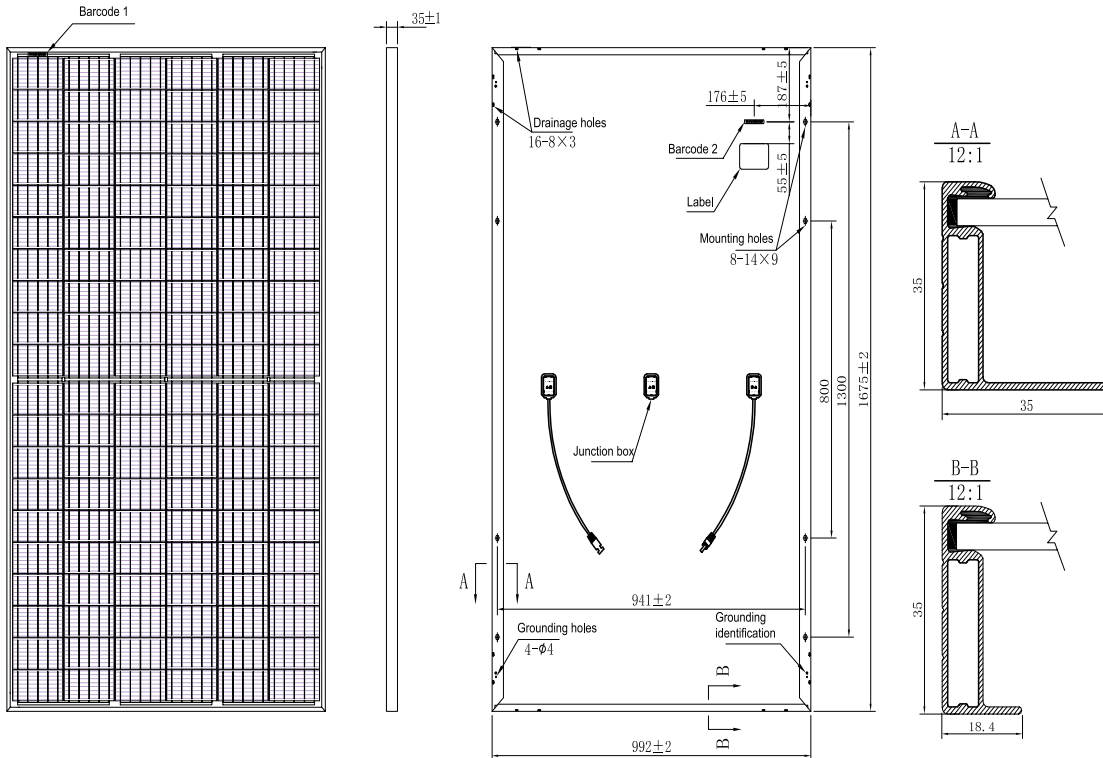
MECHANICAL DATA

Solar cells	Mono 156.75*78.375mm
Cells orientation	120(6×20)
Module dimension	1675×992×35 mm
Weight	19.5 kg
Glass	High transparency,low iron,tempered Glass 3.2mm (AR-coating)
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



ZXM6-H144 SERIES

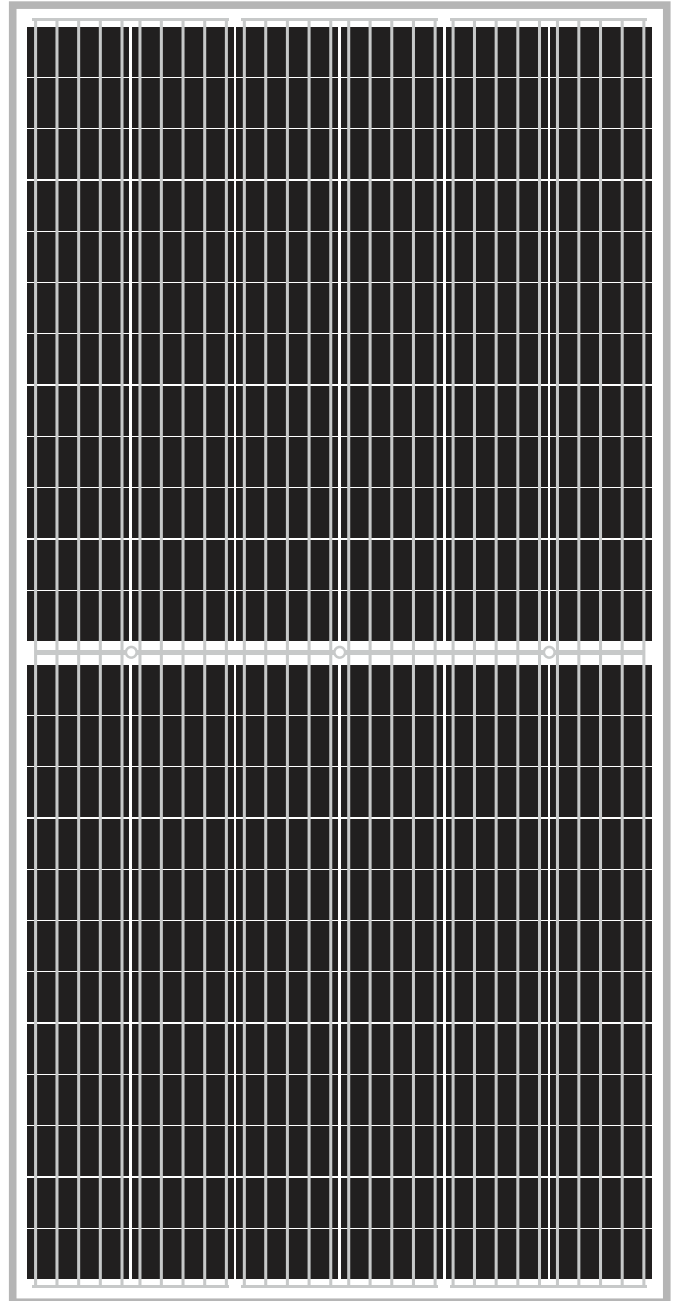
SOLAR 5BB HALF-CELL MONOCRYSTALLINE PV MODULE

385W-390W-395W-400W-405W-410W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-H144 monocrystalline modules by UNITECH SOLAR (power output 385 up to 410 Wp, represent a highly flexible solution for diverse installation types, from industrial rooftop plants to small home PV systems or large ground surfaces. This allows you to produce clean energy while reducing your energy bill.

UNITECH SOLAR'S ZXM6-H144 monocrystalline solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product. The linear warranty on product outputs further ensures increased security and return on investments over time.

12 years product warranty/25 years output warranty
0.55% Annual Degradation over 25 years



Half Cell Technology

Module RS decreases, FF (fill factor) increases, power gain is stable above 2%, and can be increased by 5~10W



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-H144 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Certified to withstand the most challenging environmental conditions

5400 Pa snow load
2400 Pa wind load



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	30
Piece/Container	660

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-H144-385/M	ZXM6-H144-390/M	ZXM6-H144-395/M	ZXM6-H144-400/M	ZXM6-H144-405/M	ZXM6-H144-410/M
Nominal Power Watt Pmax(W)	385	390	395	400	405	410
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	40.4	40.6	40.8	41.0	41.2	41.4
Maximum Power Current Imp(A)	9.53	9.61	9.69	9.76	9.84	9.91
Open Circuit Voltage Voc(V)	48.5	48.7	48.9	49.1	49.3	49.5
Short Circuit Current Isc(A)	10.00	10.08	10.16	10.24	10.32	10.40
Module Efficiency %	18.98	19.23	19.48	19.72	19.97	20.22

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	285.1	288.8	292.6	296.1	300.0	303.5
Maximum Power Voltage Vmpp(V)	37.4	37.6	37.8	38.0	38.2	38.4
Maximum Power Current Impp(A)	7.61	7.67	7.74	7.80	7.86	7.91
Open Circuit Voltage Voc(V)	45.0	45.2	45.3	45.5	45.7	45.9
Short Circuit Current Isc(A)	8.08	8.14	8.21	8.27	8.34	8.40

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	45°C ±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

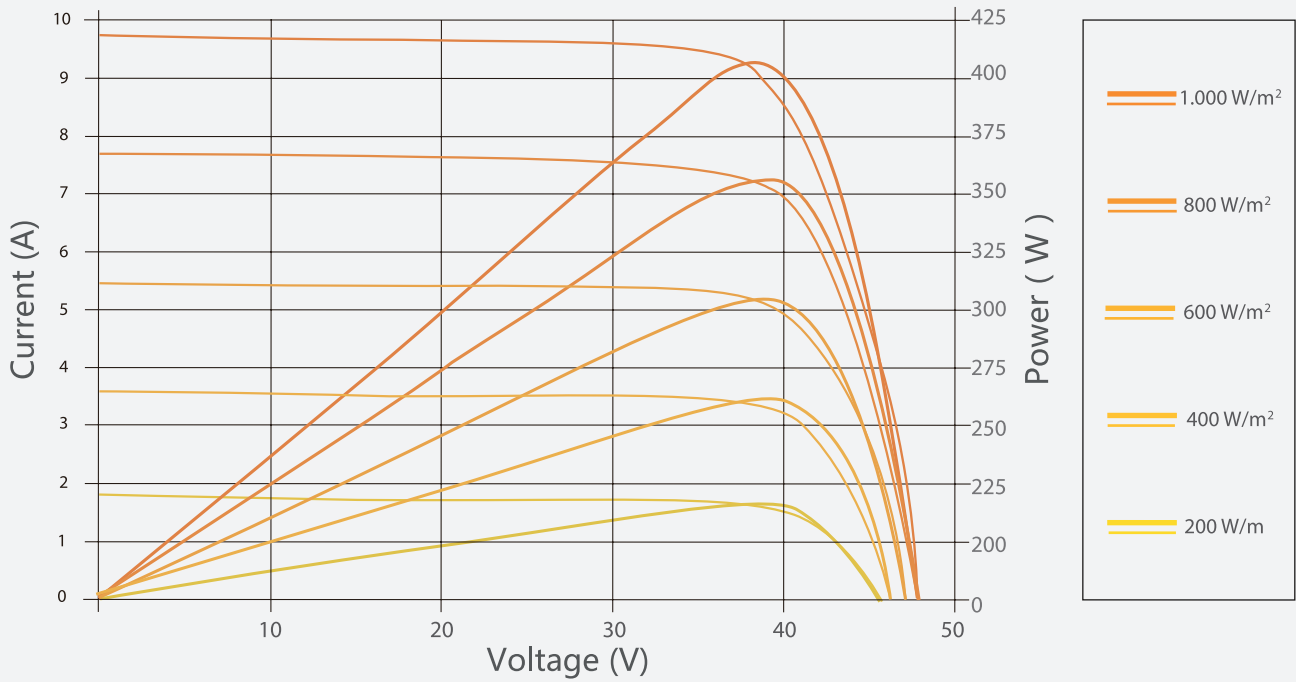
WORKING CONDITIONS

Maximum system voltage	1000 / 1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

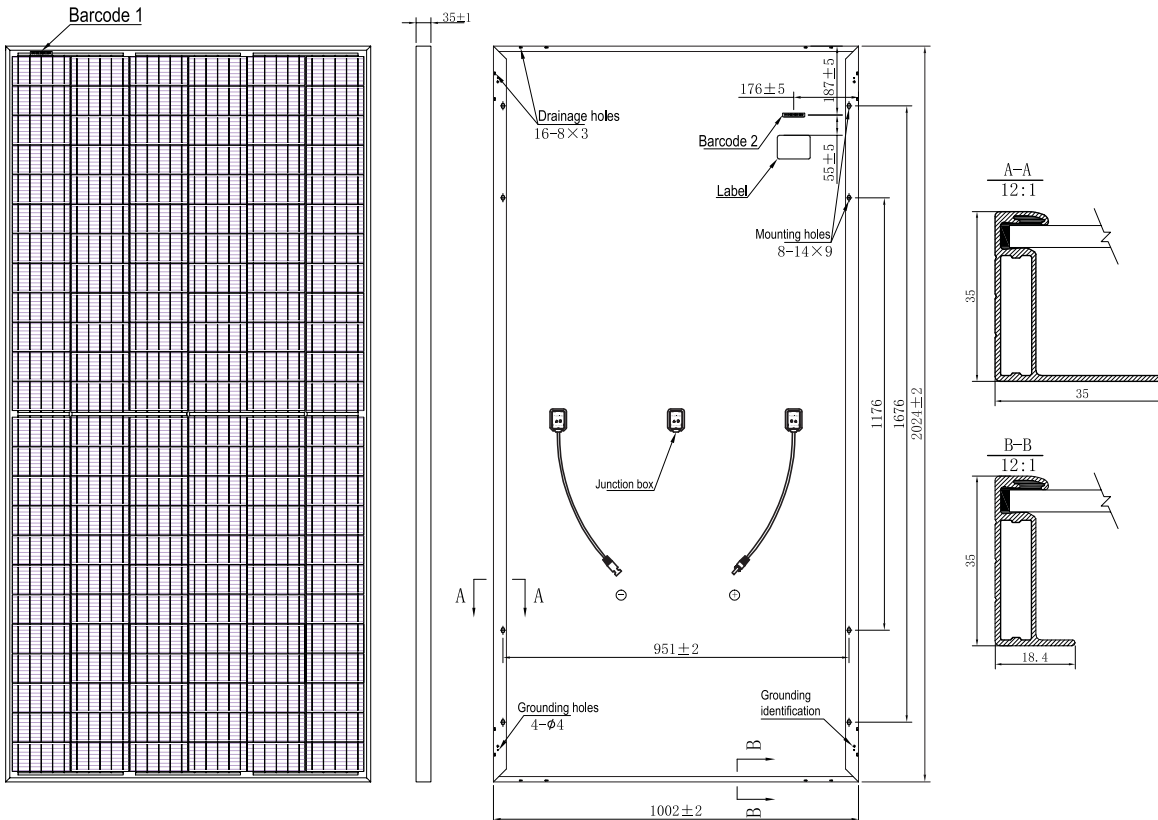
MECHANICAL DATA

Solar cells	Mono 158.75×79.375 mm
Cells orientation	144(6×24)
Module dimension	2024×1002×35 mm
Weight	22.5 kg
Glass	High transparency,low iron,tempered Glass 3.2 mm (AR-coating)
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



ZXP6-H144 SERIES

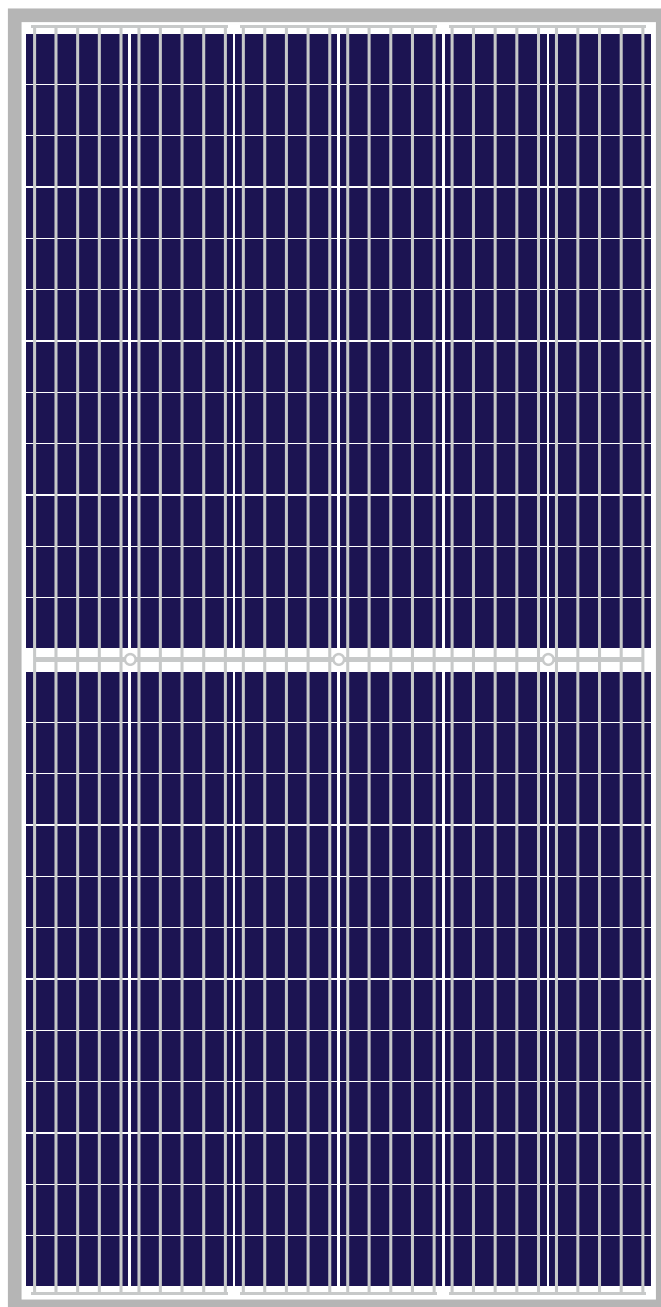
SOLAR 5BB HALF-CELL MONOCRYSTALLINE PV MODULE

340W-345W-350W-355W-360W-365W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXP6-H144 polycrystalline modules by UNITECH SOLAR represent a highly flexible solution for diverse installation types, from industrial rooftop plants to small home PV systems or large ground surfaces. This allows you to produce clean energy whilst reducing your energy bill.

UNITECH SOLAR'S ZXP6-H144 polycrystalline solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product. The linear warranty on product outputs further ensures increased security and return on investments over time.

12 years product warranty/25 years output warranty
0.7% Annual Degradation over 25 years



More power output

Module RS decreases, FF (fill factor) increases, power gain is stable above 2%, and can be increased by 5~10W



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXP6-H144 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Certified to withstand the most challenging environmental conditions

5400 Pa snow load
2400 Pa wind load



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	30
Piece/Container	660

ELECTRICAL PROPERTIES | STC*

Module Type	ZXP6- H144-340/P	ZXP6- H144-345/P	ZXP6- H144-350/P	ZXP6- H144-355/P	ZXP6- H144-360/P	ZXP6- H144-365/P
Nominal Power Watt Pmax(W)	340	345	350	355	360	365
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	38.2	38.4	38.6	38.8	39.0	39.2
Maximum Power Current Imp(A)	8.91	8.99	9.07	9.15	9.24	9.32
Open Circuit Voltage Voc(V)	46.9	47.1	47.3	47.5	47.7	47.9
Short Circuit Current Isc(A)	9.22	9.28	9.37	9.46	9.55	9.64
Module Efficiency %	16.76	17.01	17.26	17.50	17.75	18.00

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	253.9	257.5	260.8	264.3	268.4	271.8
Maximum Power Voltage Vmpp(V)	36.3	36.3	36.5	36.6	36.8	37.0
Maximum Power Current Imp(A)	7.00	7.09	7.15	7.22	7.29	7.35
Open Circuit Voltage Voc(V)	43.5	43.7	43.9	44.1	44.3	44.5
Short Circuit Current Isc(A)	7.45	7.50	7.57	7.64	7.71	7.79

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	45°C ±2°C
Temperature coefficient of Pmax	-0.39%/°C
Temperature coefficient of Voc	-0.31%/°C
Temperature coefficient of Isc	0.06%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

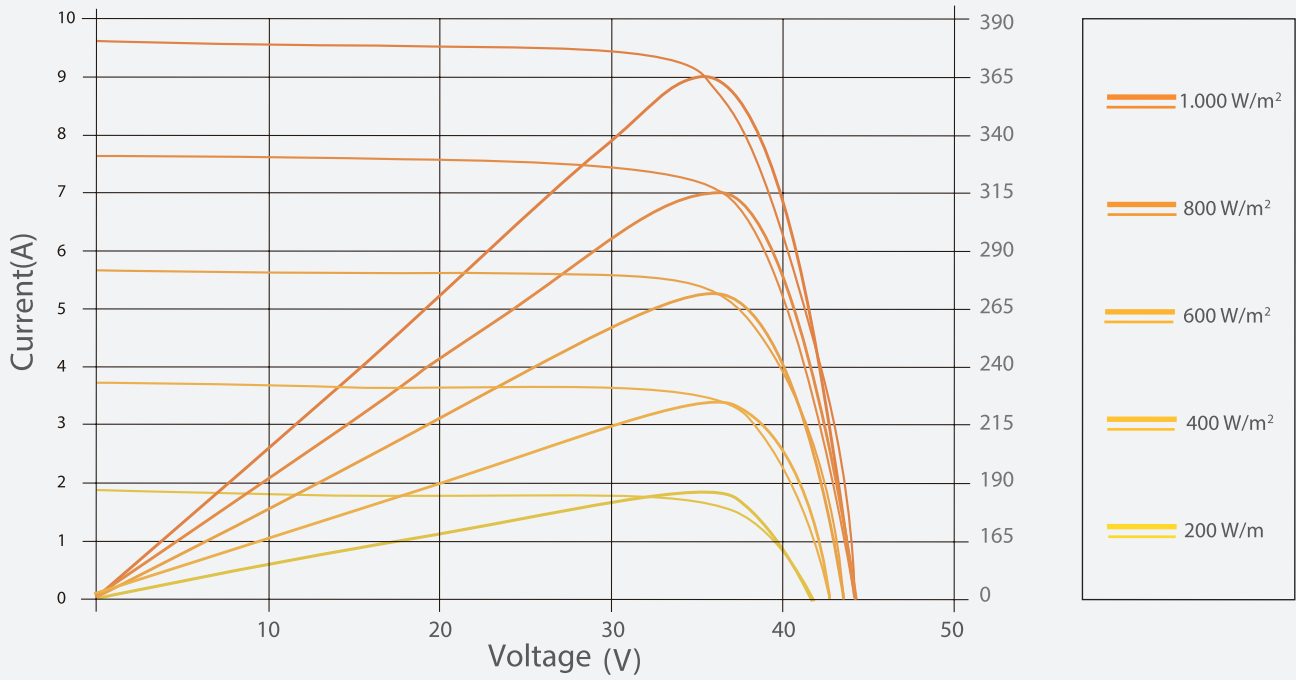
WORKING CONDITIONS

Maximum system voltage	1000 / 1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

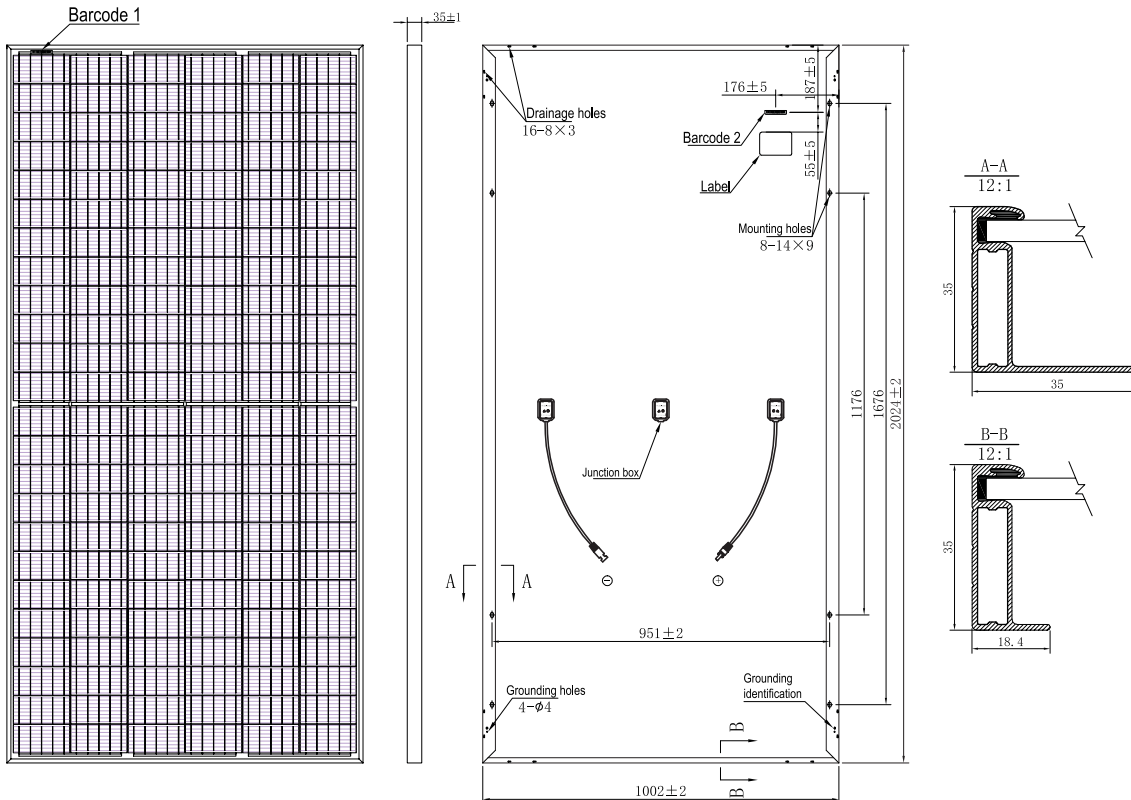
MECHANICAL DATA

Solar cells	Poly 158.75*79.375mm
Cells orientation	144(6×24)
Module dimension	2024×1002×35 mm
Weight	22.5 kg
Glass	High transparency,low iron,tempered Glass 3.2mm (AR-coating)
Junction box	IP 6, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



ZXM6-NH120 SERIES

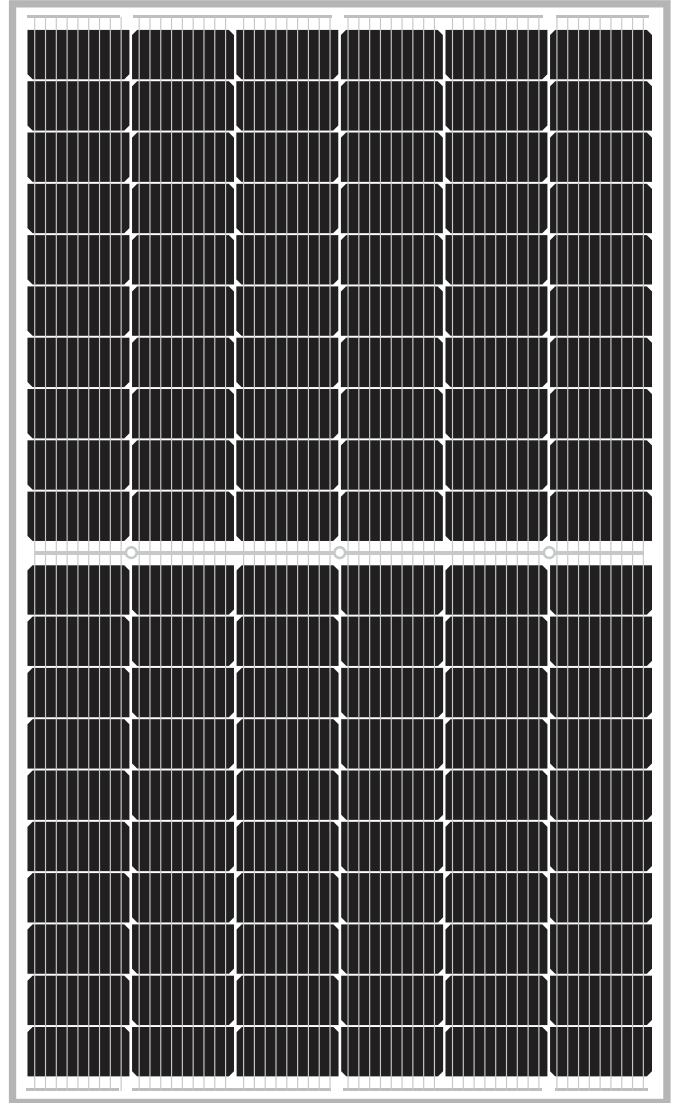
SOLAR 9BB HALF-CELL MONOCRYSTALLINE PV MODULE

350W-355W-360W-365W-370W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-NH120 monocrystalline modules by UNITECH SOLAR (power output 350 up to 370Wp, represent a highly flexible solution for diverse installation types, from industrial rooftop plants to small home PV systems or large ground surfaces. This allows you to produce clean energy while reducing your energy bill.

UNITECH SOLAR'S ZXM6-NH120 Monocrystalline solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product. The linear warranty on product outputs further ensures increased security and return on investments over time.

12 years product warranty/25 years output warranty
0.55% Annual Degradation over 25 years



9 Busbar Solar Cell

No power loss thanks to improved temperature co-efficient caused by 9 busbar solar cell



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-NH120 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Certified to withstand the most challenging environmental conditions

5400 Pa snow load
2400 Pa wind load



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	30
Piece/Container	840

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-NH120-350/M	ZXM6-NH120-355/M	ZXM6-NH120-360/M	ZXM6-NH120-365/M	ZXM6-NH120-370/M
Nominal Power Watt Pmax(W)	350	355	360	365	370
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	33.4	33.6	33.8	34.0	34.2
Maximum Power Current Imp(A)	10.48	10.57	10.66	10.74	10.82
Open Circuit Voltage Voc(V)	40.2	40.4	40.6	40.8	41.0
Short Circuit Current Isc(A)	11.04	11.14	11.24	11.33	11.42
Module Efficiency %	18.80	19.07	19.34	19.61	19.88

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	256.1	259.8	263.5	267.1	270.6
Maximum Power Voltage Vmpp(V)	30.9	31.1	31.3	31.4	31.6
Maximum Power Current Impp(A)	8.28	8.36	8.43	8.50	8.57
Open Circuit Voltage Voc(V)	37.2	37.4	37.6	37.8	38.0
Short Circuit Current Isc(A)	8.92	9.00	9.08	9.15	9.22

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	44°C ±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

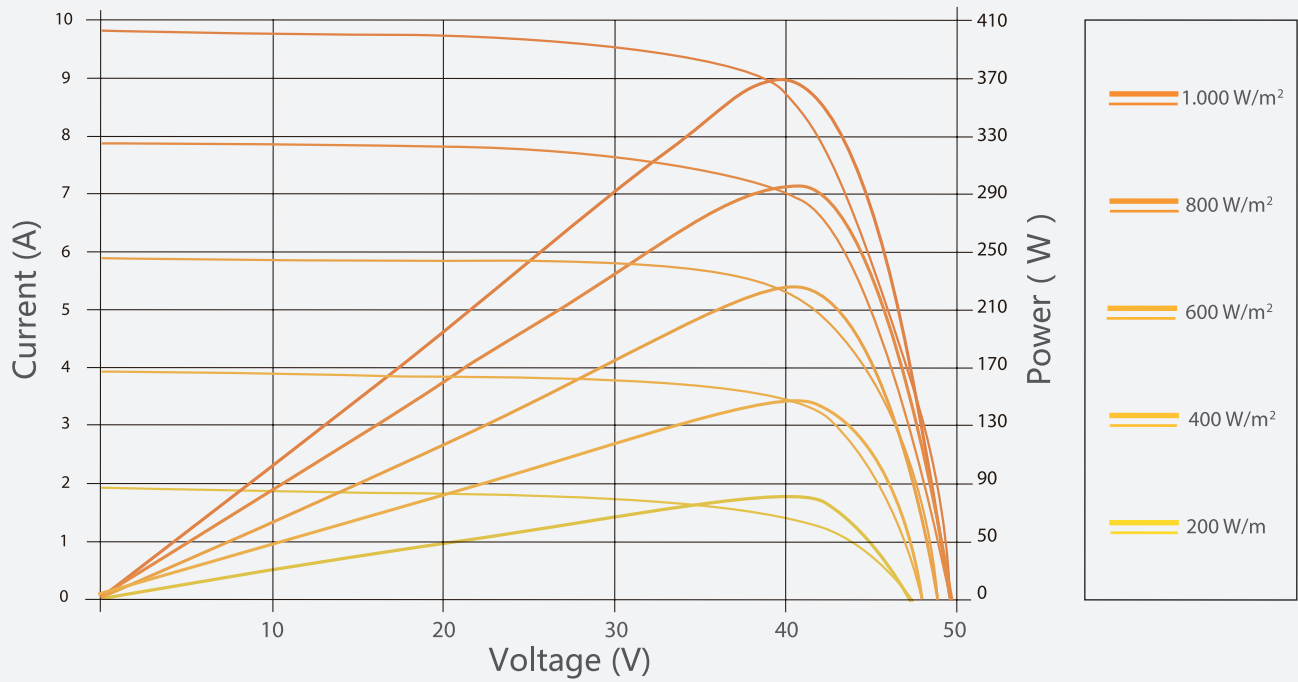
WORKING CONDITIONS

Maximum system voltage	1000 / 1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

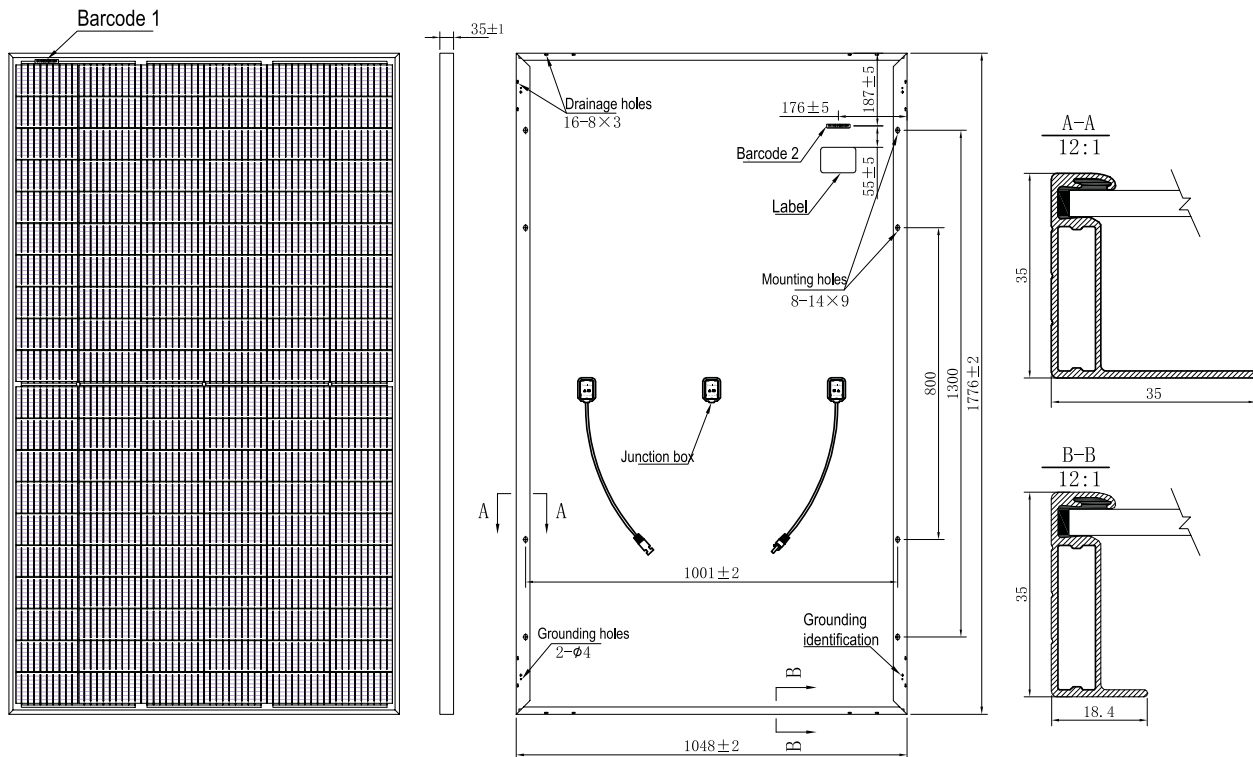
MECHANICAL DATA

Solar cells	Mono 166×83mm
Cells orientation	120(6×20)
Module dimension	1776×1048×35 mm
Weight	19.5 kg
Glass	High transparency,low iron,tempered Glass 3.2 mm (AR-coating)
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



ZXM6-NH144 SERIES

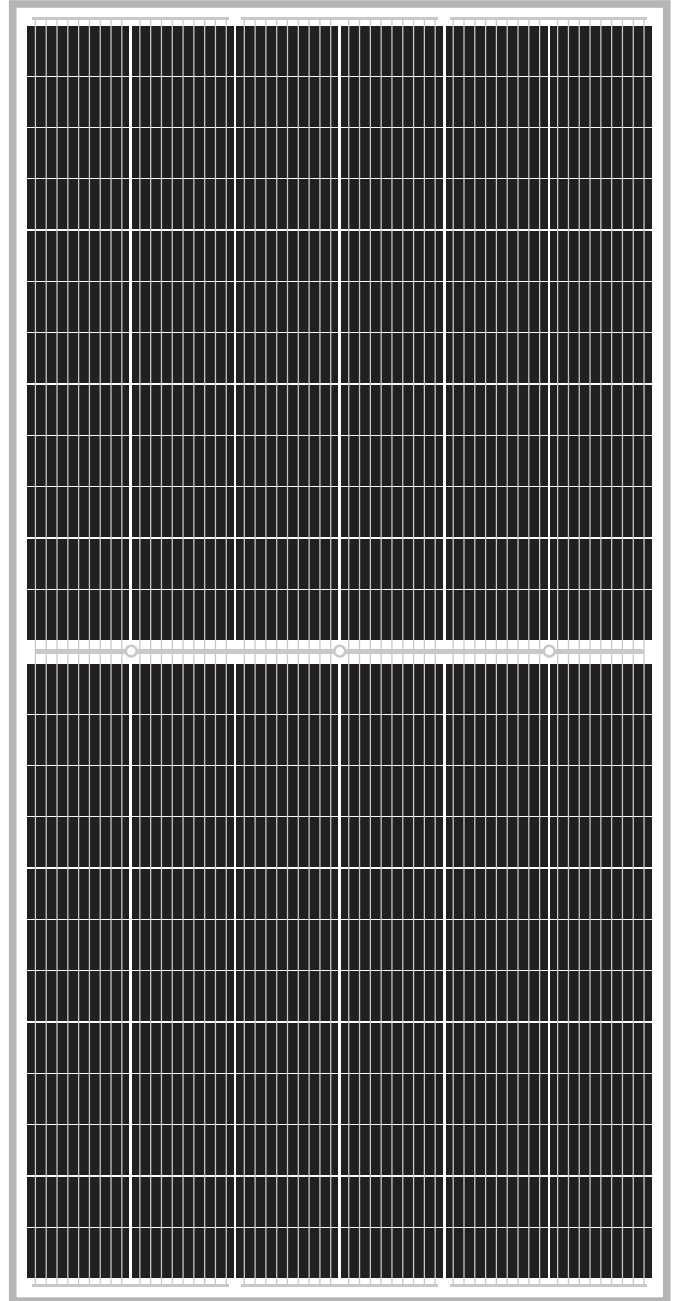
SOLAR 9BB HALF-CELL MONOCRYSTALLINE PV MODULE

395W-400W-405W-410W-415W-420W-425W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-NH144 Monocrystalline modules by UNITECH SOLAR (power output 395 up to 425Wp, represent a highly flexible solution for diverse installation types, from industrial rooftop plants to small home PV systems or large ground surfaces. This allows you to produce clean energy while reducing your energy bill.

UNITECH SOLAR'S ZXM6-NH144 Monocrystalline solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product. The linear warranty on product outputs further ensures increased security and return on investments over time.

12 years product warranty/25 years output warranty
0.55% Annual Degradation over 25 years



9 Busbar Solar Cell

No power loss thanks to improved temperature co-efficient caused by 9 busbar solar cell



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-NH144 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Certified to withstand the most challenging environmental conditions

5400 Pa snow load
2400 Pa wind load



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	30
Piece/Container	660

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-NH144-395/M	ZXM6-NH144-400/M	ZXM6-NH144-405/M	ZXM6-NH144-410/M	ZXM6-NH144-415/M	ZXM6-NH144-420/M	ZXM6-NH144-425/M
Nominal Power Watt Pmax(W)	395	400	405	410	415	420	425
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	40.8	41.0	41.2	41.4	41.6	41.8	42.0
Maximum Power Current Imp(A)	9.69	9.76	9.84	9.91	9.98	10.05	10.12
Open Circuit Voltage Voc(V)	48.9	49.1	49.3	49.5	49.7	49.9	50.1
Short Circuit Current Isc(A)	10.16	10.22	10.28	10.34	10.40	10.46	10.52
Module Efficiency %	19.48	19.72	19.97	20.22	20.46	20.	20.96

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	293.8	297.3	301.1	304.7	307.9	311.3	313.1
Maximum Power Voltage Vmpp(V)	38.0	38.2	38.5	38.6	38.9	39.1	39.3
Maximum Power Current Impp(A)	7.73	7.78	7.83	7.89	7.92	7.96	7.97
Open Circuit Voltage Voc(V)	45.5	45.7	45.8	46.0	46.2	46.3	46.5
Short Circuit Current Isc(A)	8.20	8.25	8.30	8.35	8.40	8.45	8.50

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	44°C ±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

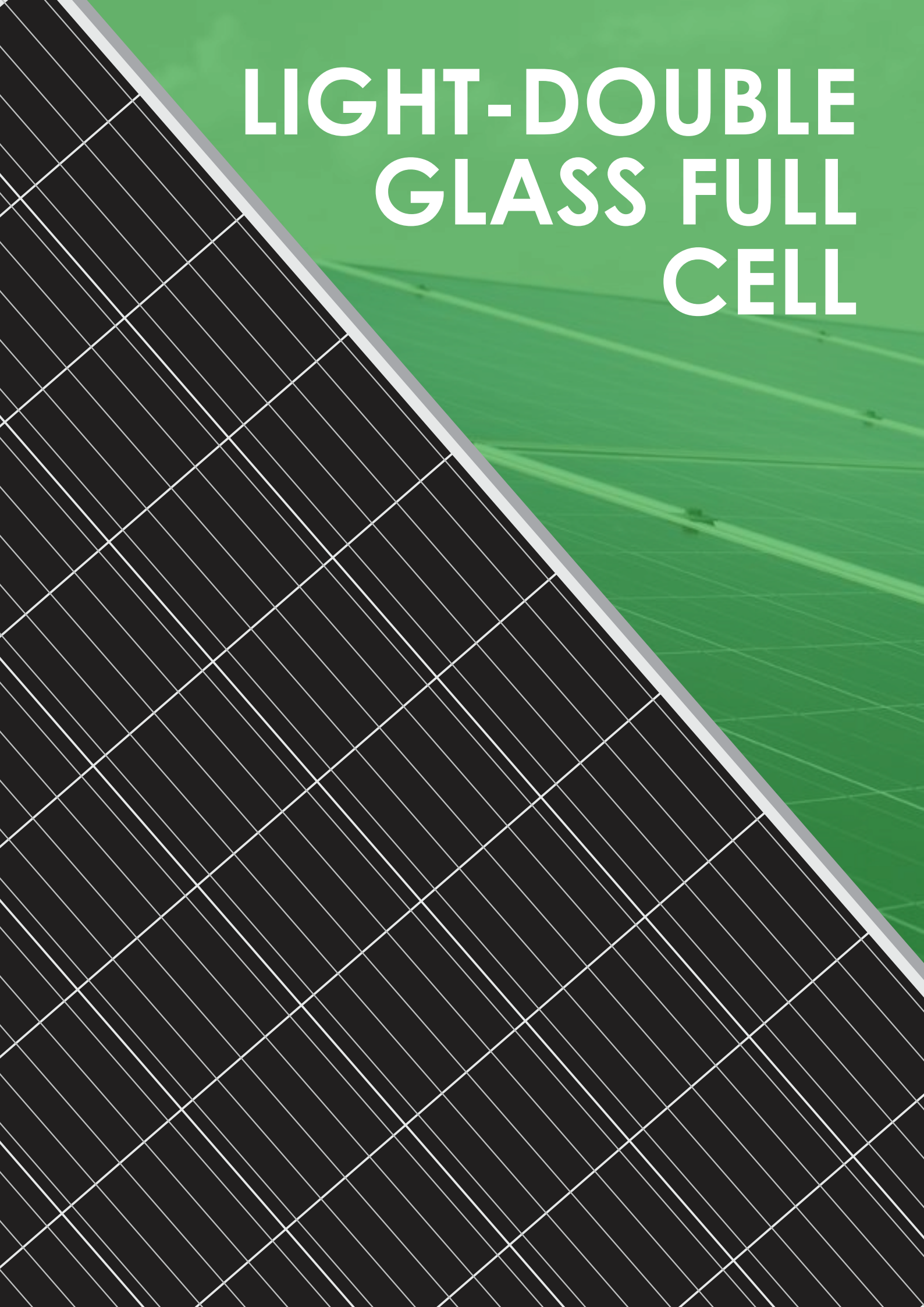
WORKING CONDITIONS

Maximum system voltage	1000 / 1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

MECHANICAL DATA

Solar cells	Mono 158.75*79.375mm
Cells orientation	144(6*24)
Module dimension	2024×1002×35 mm
Weight	22.5 kg
Glass	High transparency,low iron,tempered Glass 3.2 mm (AR-coating)
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

LIGHT-DOUBLE GLASS FULL CELL



ZXM6-LD60 SERIES

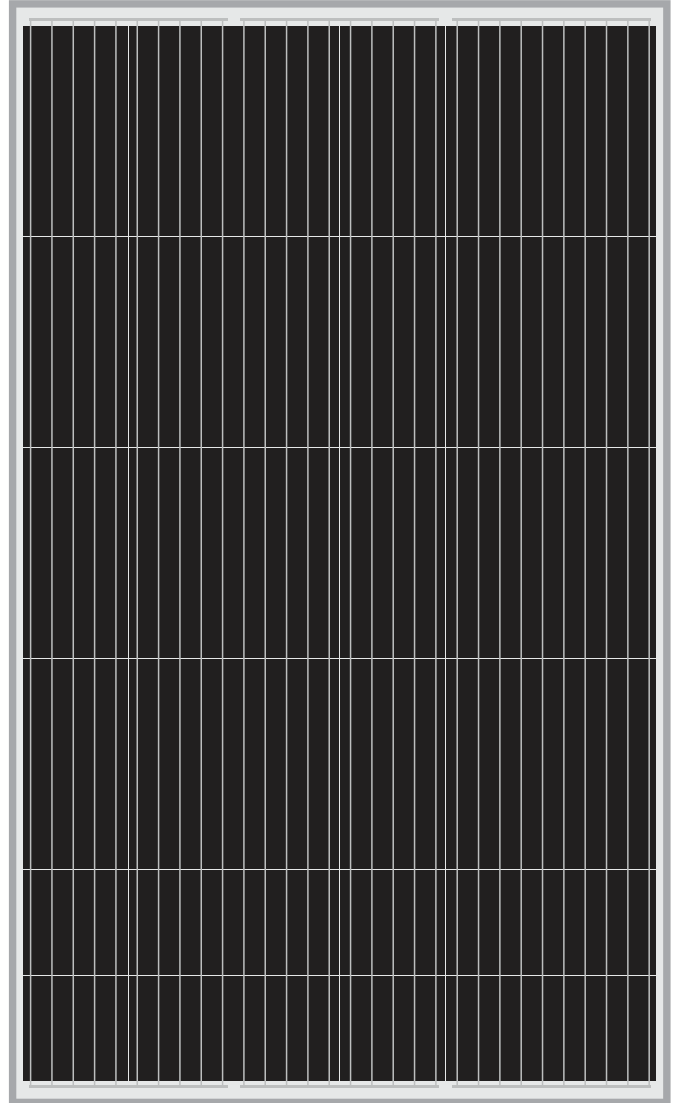
SOLAR 5BB LIGHT-WEIGHT DOUBLE GLASS MONO PV MODULE

305W-310W-315W-320W-325W-330W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-LD60 double glass modules by UNITECH SOLAR feature have both decorative and shading functions. They represent the perfect choice for BIPV and BAPV construction applications. This allows you to produce clean energy while reducing your energy bill.

UNITECH SOLAR'S ZXM6-LD60 double glass solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product.

**12 years product warranty/25 years output warranty
0.5% Annual Degradation over 30 years**



Innovative PV module

In comparison with common double glass modules, our modules are extremely robust and superior air tightness



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-LD60 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Easy to install

The module is very light in weight so the installation is easier and transport costs are lower



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	36
Piece/Container	1008

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-LD60-305/M	ZXM6-LD60-310/M	ZXM6-LD60-315/M	ZXM6-LD60-320/M	ZXM6-LD60-325/M	ZXM6-LD60-330/M
Nominal Power Watt Pmax(W)	305	310	315	320	325	330
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	32.6	32.8	33.0	33.2	33.4	33.4
Maximum Power Current Imp(A)	9.36	9.46	9.55	9.64	9.74	9.74
Open Circuit Voltage Voc(V)	39.8	40.0	40.2	40.4	40.6	40.6
Short Circuit Current Isc(A)	9.85	9.95	10.05	10.15	10.25	10.25
Module Efficiency %	18.14	18.44	18.73	19.03	19.33	19.33

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	225.6	229.4	233.0	236.6	240.5	240.5
Maximum Power Voltage Vmpp(V)	30.2	30.4	30.5	30.7	30.9	30.9
Maximum Power Current Impp(A)	7.48	7.56	7.64	7.71	7.79	7.79
Open Circuit Voltage Voc(V)	36.8	37.0	37.2	37.4	37.5	37.5
Short Circuit Current Isc(A)	7.96	8.04	8.12	8.20	8.28	8.28

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	45°C ±2°C
Temperature coefficient of Pmax	-0.37%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

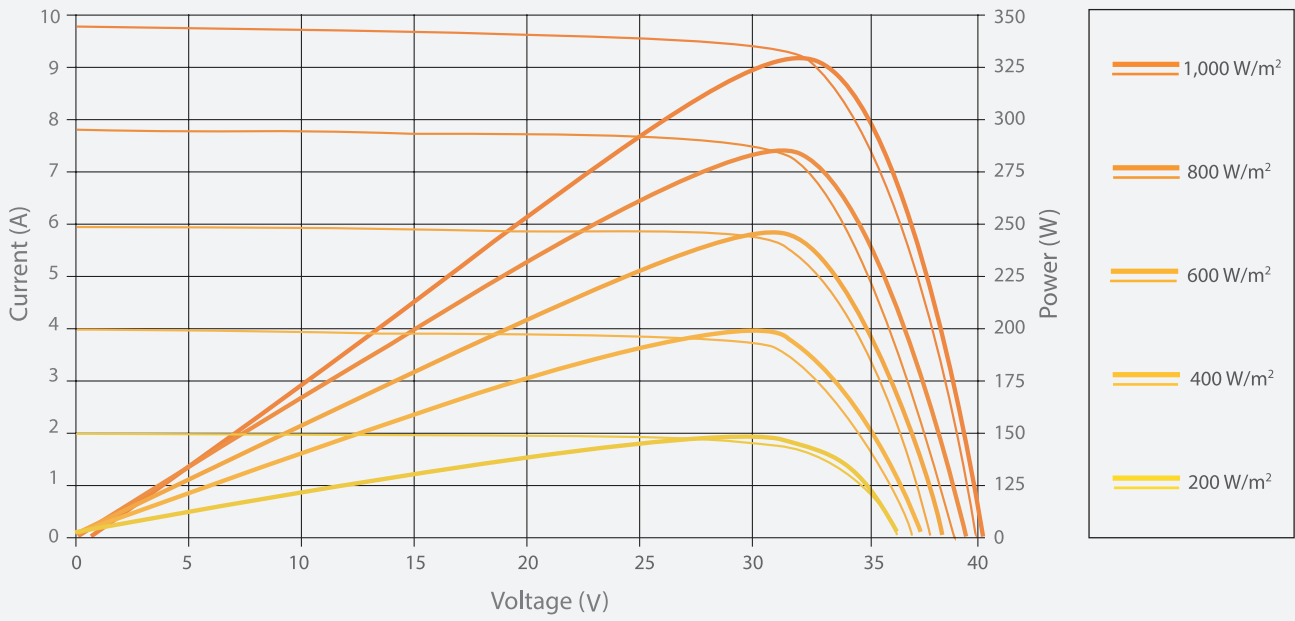
WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

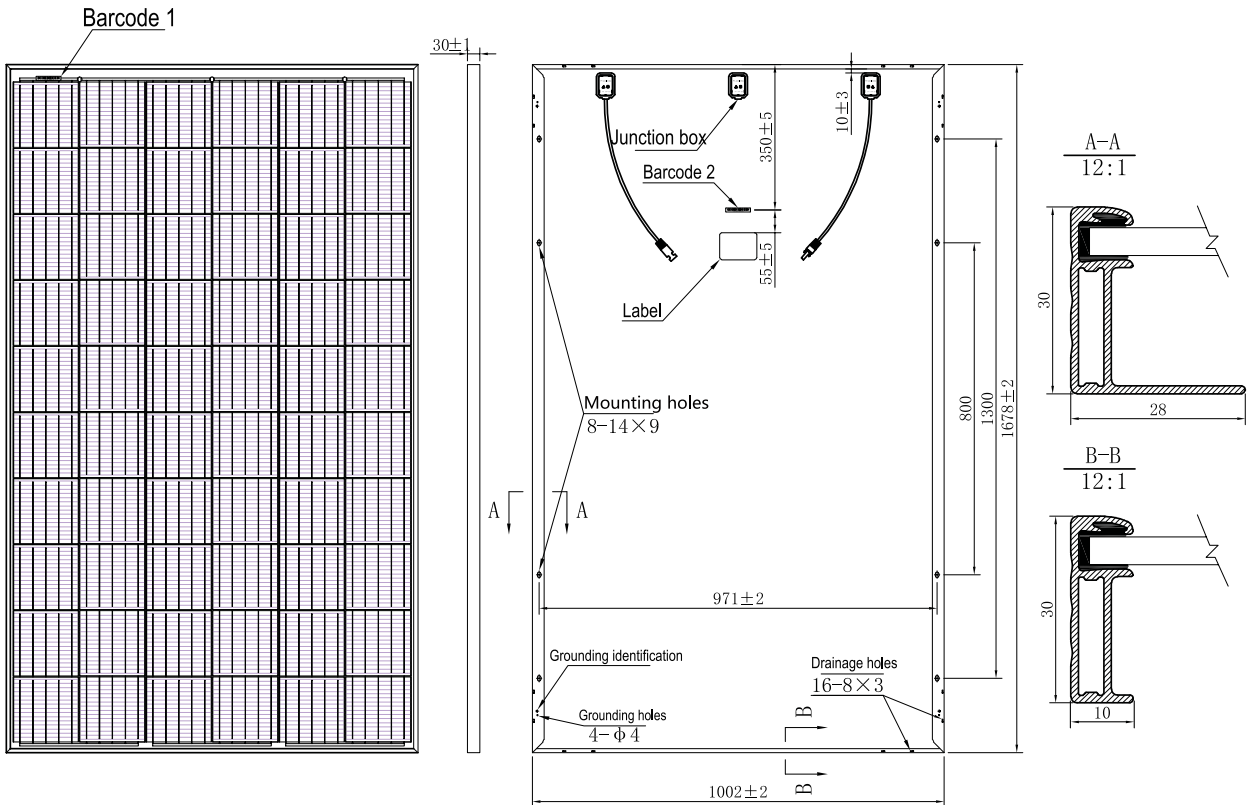
MECHANICAL DATA

Solar cells	Mono 158.75×158.75 mm
Cells orientation	60(6×10)
Module dimension	1678×1002×30 mm(With Frame)
Weight	22kg
Glass	2.0+2.0mm heat strengthened glass
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



ZXM6-LD72 SERIES

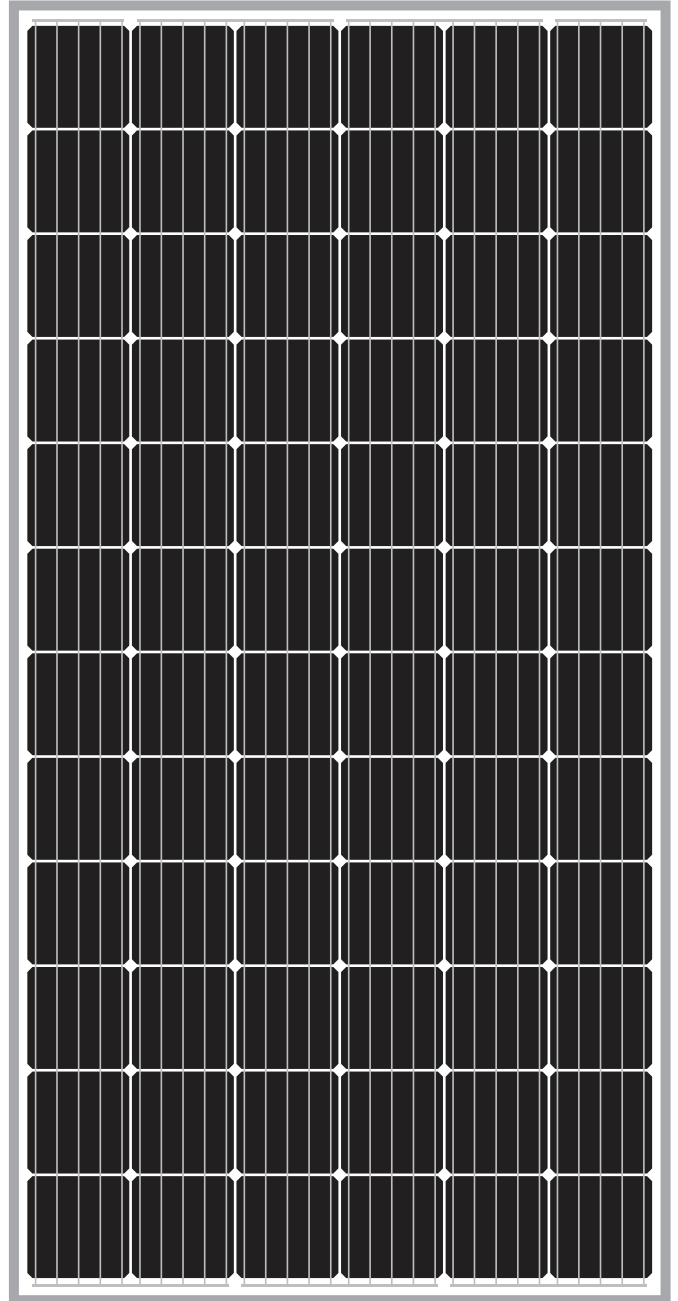
SOLAR 5BB LIGHT-WEIGHT DOUBLE GLASS MONO PV MODULE

355W-360W-365W-370W-375W-380W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-LD72 double glass modules by UNITECH SOLAR feature have both decorative and shading functions. They represent the perfect choice for BIPV and BAPV construction applications. This allows you to produce clean energy while reducing your energy bill.

UNITECH SOLAR'S ZXM6-LD72 double glass solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product.

12 years product warranty/25 years output warranty
0.5% Annual Degradation over 30 years



Innovative PV module

In comparison with common double glass modules, our modules are extremely robust and superior air tightness



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-LD72 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Easy to install

The module is very light in weight so the installation is easier and transport costs are lower



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	36
Piece/Container	864

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-LD72 -355/M	ZXM6-LD72 -360/M	ZXM6-LD72 -365/M	ZXM6-LD72 -370/M	ZXM6-LD72 -375/M	ZXM6-LD72 -380/M
Nominal Power Watt Pmax(W)	355	360	365	370	375	380
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	38.8	39.0	39.2	39.4	39.6	39.8
Maximum Power Current Imp(A)	9.15	9.24	9.32	9.40	9.47	9.55
Open Circuit Voltage Voc(V)	47.5	47.6	47.9	48.1	48.3	48.5
Short Circuit Current Isc(A)	9.65	9.80	9.83	9.90	9.97	10.04
Module Efficiency %	18.09	18.35	18.60	18.86	19.11	19.37

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	262.3	265.7	269.6	273.5	277.8	281.1
Maximum Power Voltage Vmpp(V)	35.9	35.9	36.3	36.5	36.6	36.8
Maximum Power Current Impp(A)	7.30	7.39	7.43	7.49	7.59	7.63
Open Circuit Voltage Voc(V)	43.9	44.0	44.3	44.5	44.7	44.8
Short Circuit Current Isc(A)	7.80	7.92	7.94	8.00	8.06	8.11

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	45°C ±2°C
Temperature coefficient of Pmax	-0.37%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

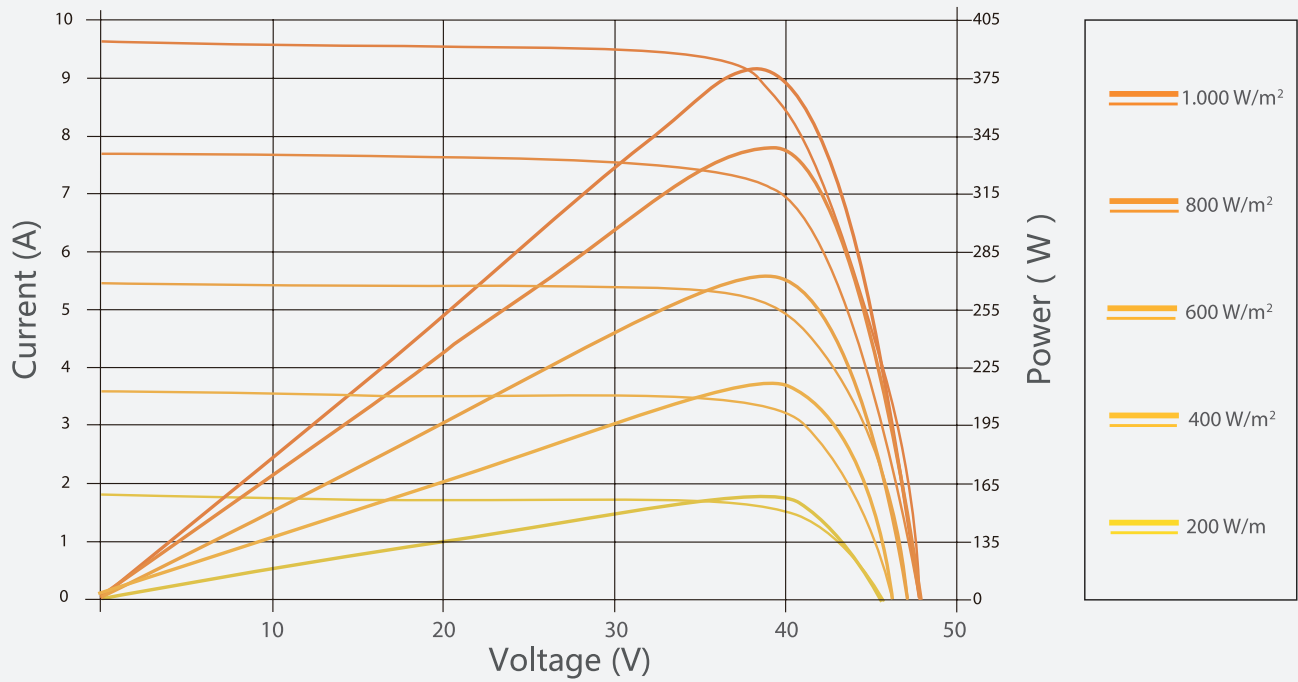
WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

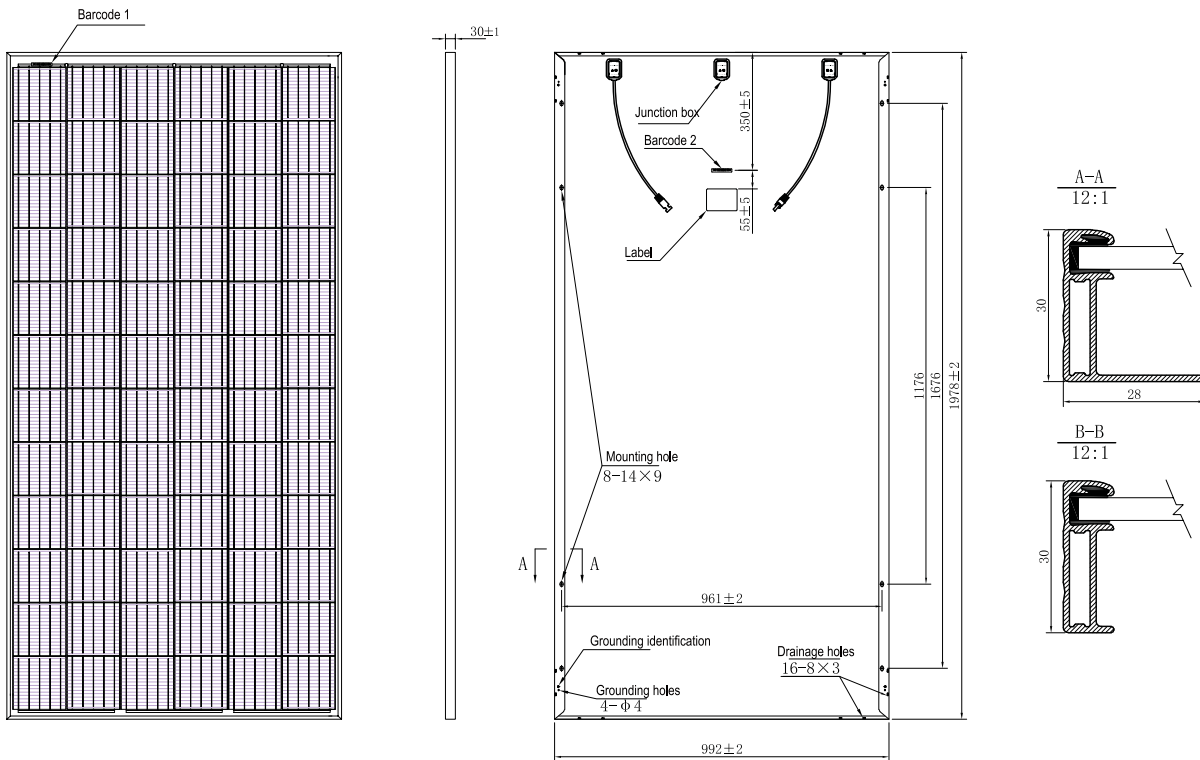
MECHANICAL DATA

Solar cells	Mono 156.75×156.75 mm
Cells orientation	72(6×12)
Module dimension	1978×992×30 mm(With Frame)
Weight	25.5 kg
Glass	2.0+2.0 mm heat strengthened glass
Junction box	IP 68, 3 diodes
Cables	4 mm² ,350 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



ZXP6-LD72 SERIES

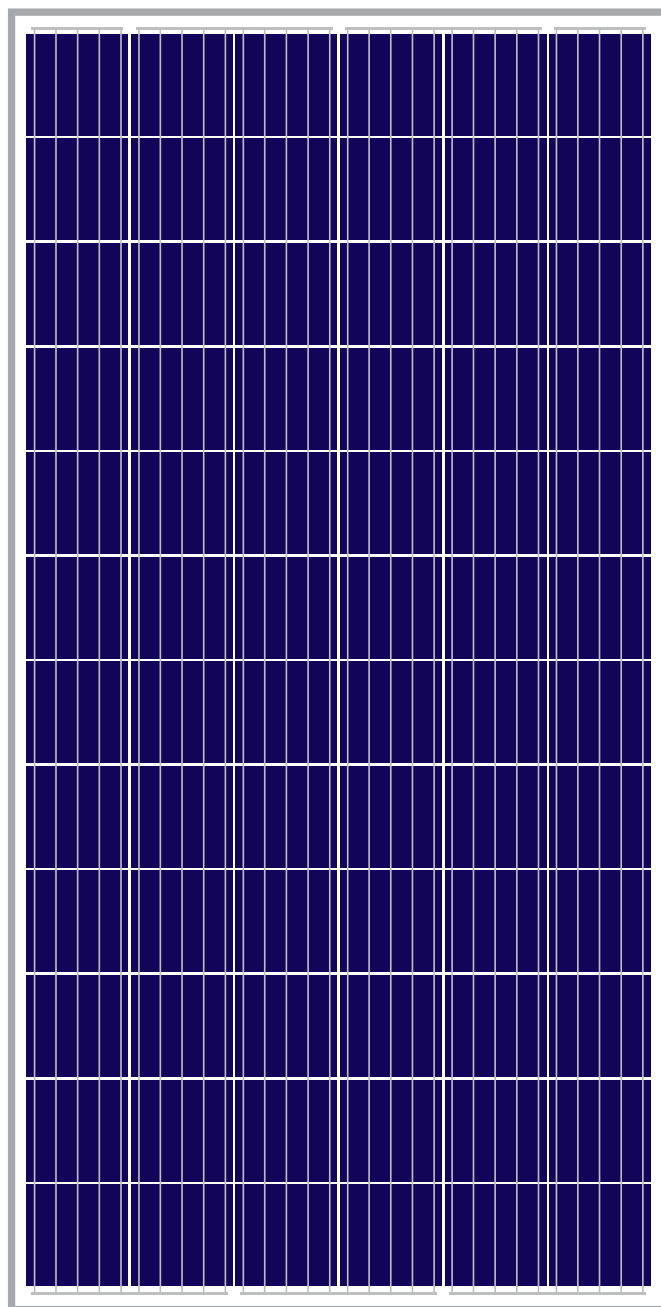
SOLAR 5BB LIGHT-WEIGHT DOUBLE GLASS MONO PV MODULE

325W-330W-335W-340W-345W-350W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXP6-LD72 double glass modules by UNITECH SOLAR feature have both decorative and shading functions. They represent the perfect choice for BIPV and BAPV construction applications. This allows you to produce clean energy while reducing your energy bill.

UNITECH SOLAR'S ZXP6-LD72 double glass solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product.

12 years product warranty/25 years output warranty
0.5% Annual Degradation over 30 years



Innovative PV module

In comparison with common double glass modules, our modules are extremely robust and superior air tightness



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXP6-LD72 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Easy to install

The module is very light in weight so the installation is easier and transport costs are lower



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	36
Piece/Container	864

ELECTRICAL PROPERTIES | STC*

Module Type	ZXP6-LD72 -325/P	ZXP6-LD72 -330/P	ZXP6-LD72 -335/P	ZXP6-LD72 -340/P	ZXP6-LD72 -345/P	ZXP6-LD72 -350/P
Nominal Power Watt Pmax(W)	325	330	335	340	345	350
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	37.2	37.4	37.6	37.8	38.0	38.2
Maximum Power Current Imp(A)	8.74	8.83	8.91	9.00	9.08	9.17
Open Circuit Voltage Voc(V)	46.5	46.7	46.9	47.1	47.3	47.5
Short Circuit Current Isc(A)	9.12	9.16	9.21	9.27	9.34	9.42
Module Efficiency %	16.56	16.82	17.07	17.33	17.58	17.84

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	240.2	244.8	249.0	253.5	257.4	260.5
Maximum Power Voltage Vmpp(V)	34.9	35.3	35.6	35.9	36.2	36.2
Maximum Power Current Imp(A)	6.88	6.94	7.00	7.06	7.11	7.21
Open Circuit Voltage Voc(V)	42.8	43.0	43.1	43.3	43.5	43.7
Short Circuit Current Isc(A)	7.38	7.41	7.46	7.50	7.56	7.63

*NMOT(Nominal module operating temperature):Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	45°C ±2°C
Temperature coefficient of Pmax	-0.40%/°C
Temperature coefficient of Voc	-0.31%/°C
Temperature coefficient of Isc	0.06%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

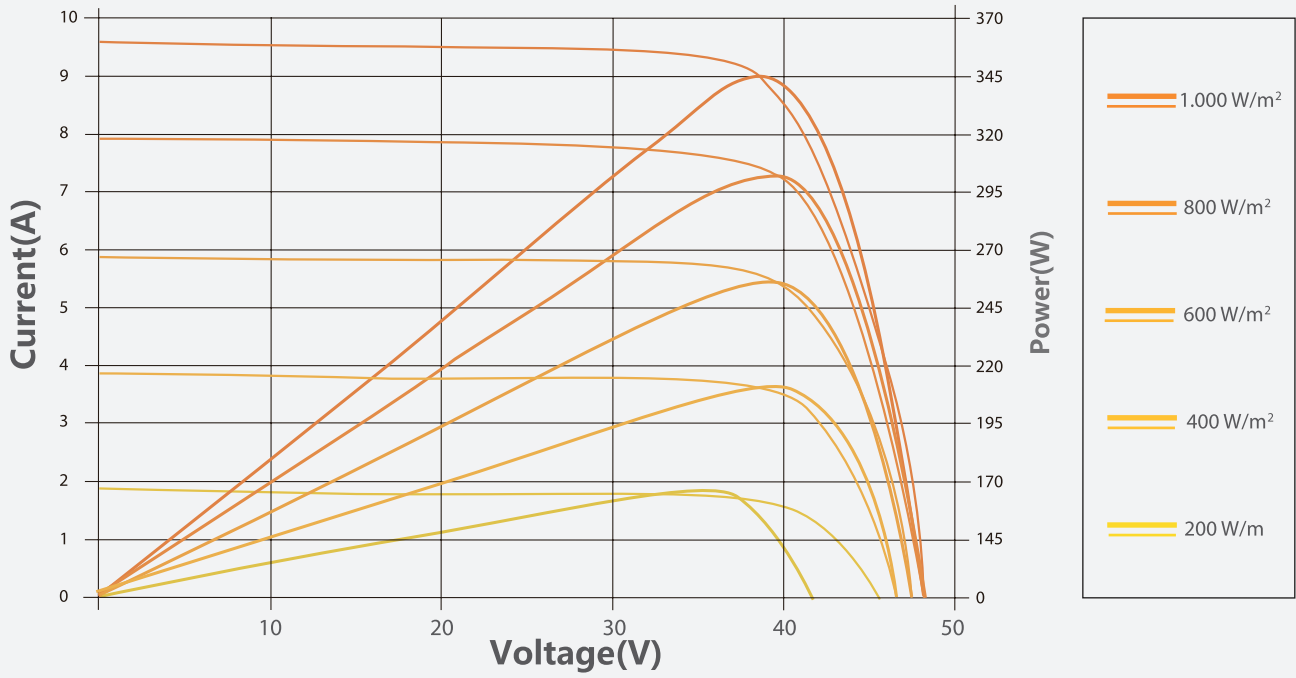
WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	15 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

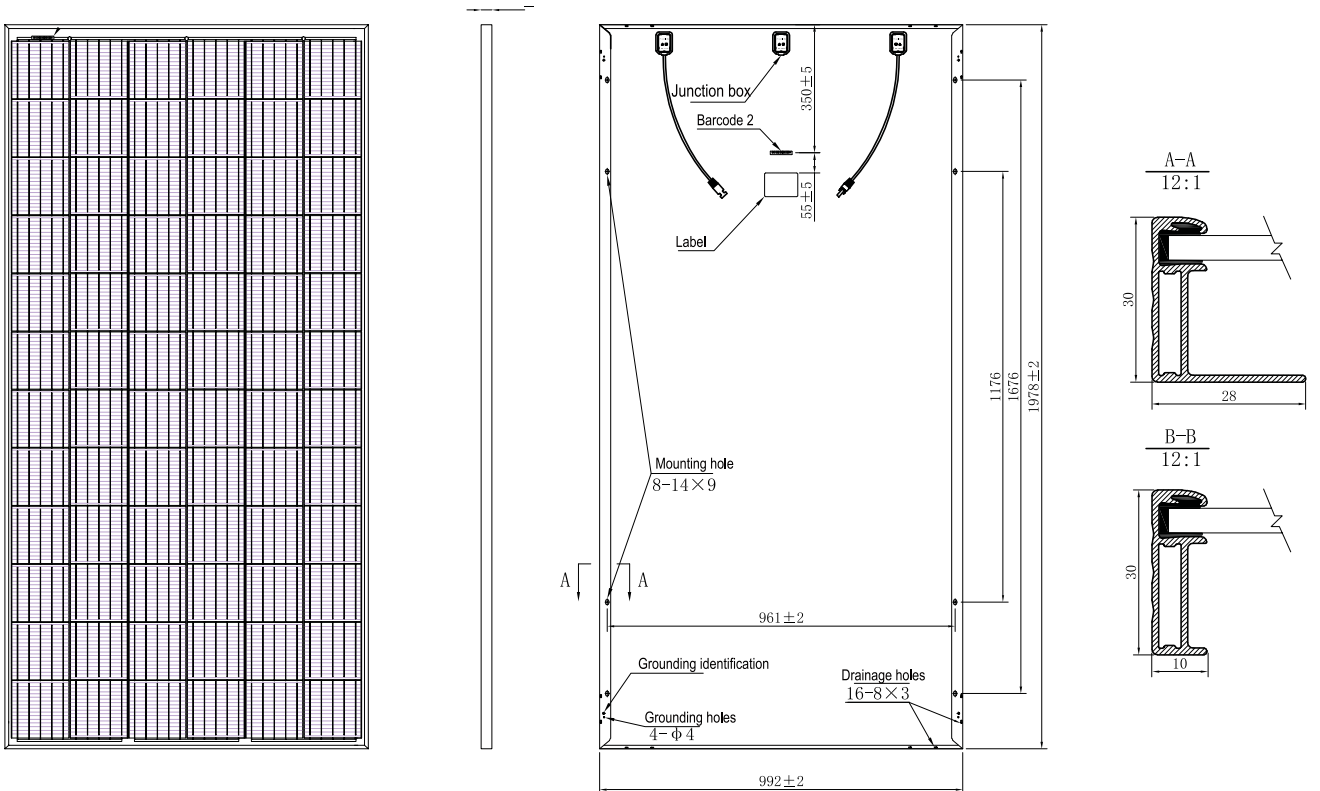
MECHANICAL DATA

Solar cells	Poly 156.75×156.75 mm
Cells orientation	72(6×12)
Module dimension	1978×992×30 mm(With Frame)
Weight	25.5 kg
Glass	2.0mm+2.0mm heat strengthened glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

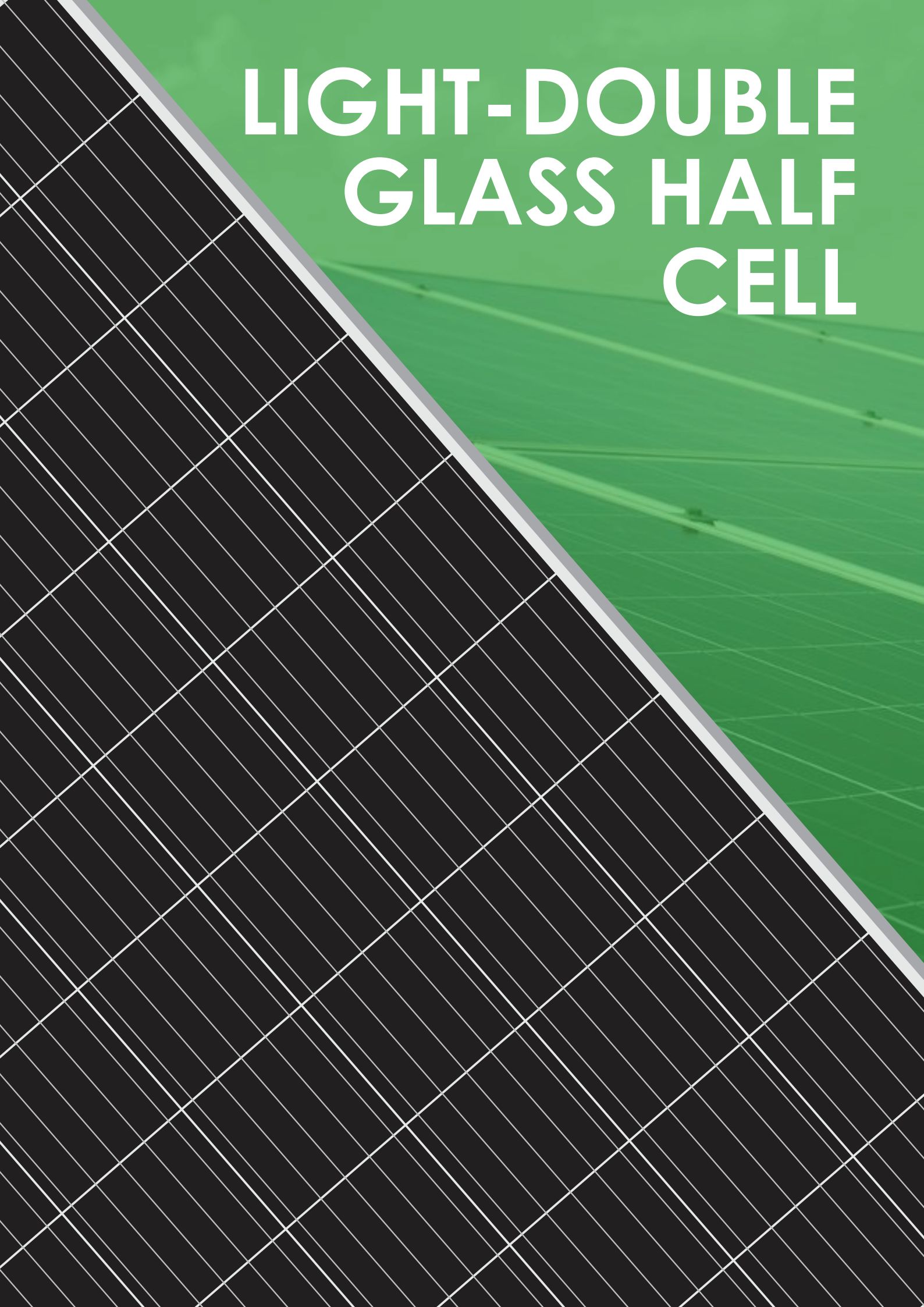
I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



LIGHT-DOUBLE GLASS HALF CELL



ZXM6-HLD144 SERIES

SOLAR 5BB HALF-CELL LIGHT-WEIGHT DOUBLE GLASS MONO PV MODULE

385W-390W-395W-400W-405W-410W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-HLD144 double glass modules by UNITECH SOLAR feature have both decorative and shading functions. They represent the perfect choice for BIPV and BAPV construction applications. This allows you to produce clean energy while reducing your energy bill.

UNITECH SOLAR'S ZXM6-HLD144 double glass solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product.

12 years product warranty/25 years output warranty
0.5% Annual Degradation over 30 years



Innovative PV module

In comparison with common double glass modules, our modules are extremely robust and superior air tightness



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-HLD144 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



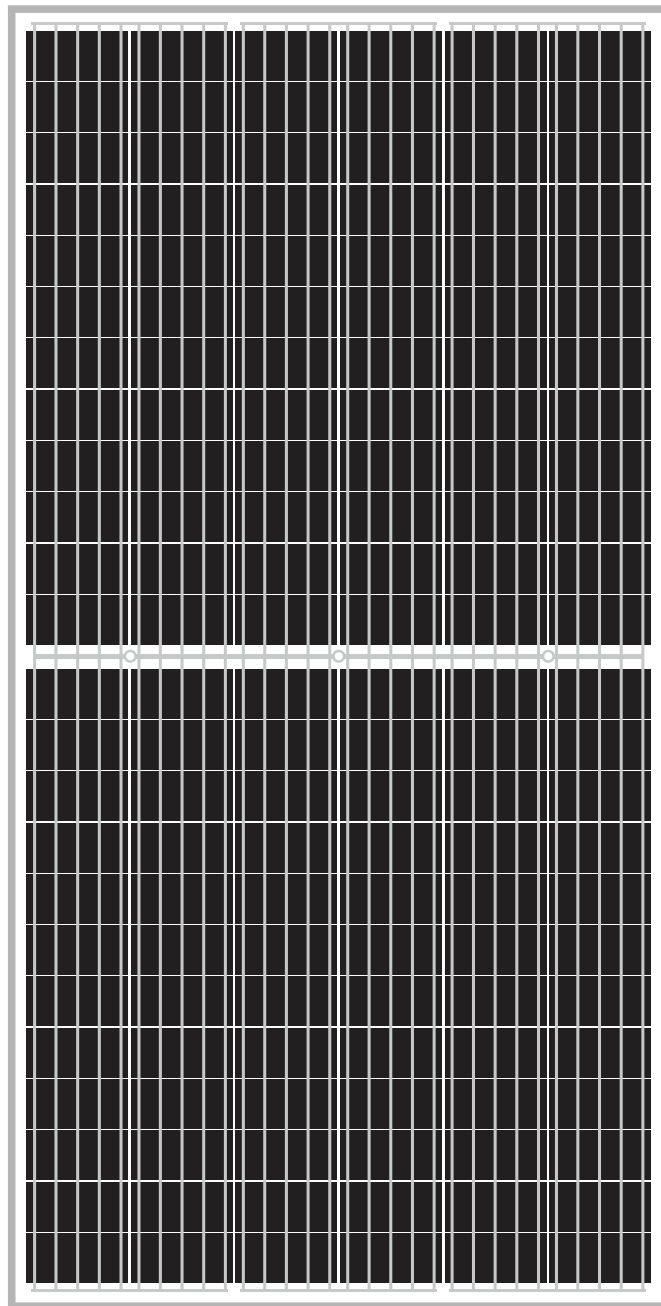
Easy to install

Module is very light so the installation is easier and transport costs are lower



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost



PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	36
Piece/Container	792

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-HLD144-385/M	ZXM6-HLD144-390/M	ZXM6-HLD144-395/M	ZXM6-HLD144-400/M	ZXM6-HLD144-405/M	ZXM6-HLD144-410/M
Nominal Power Watt Pmax(W)	385	390	395	400	405	410
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	40.4	40.7	41.0	41.3	41.6	41.9
Maximum Power Current Imp(A)	9.53	9.59	9.64	9.69	9.74	9.79
Open Circuit Voltage Voc(V)	49.3	49.6	49.9	50.2	50.5	50.8
Short Circuit Current Isc(A)	9.86	9.92	9.98	10.03	10.08	10.13
Module Efficiency %	19.26	19.51	19.76	20.01	20.26	20.51

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	287.1	291.0	294.5	298.1	301.8	305.0
Maximum Power Voltage Vmpp(V)	38.2	38.4	38.7	39.0	39.2	39.5
Maximum Power Current Impp(A)	7.52	7.57	7.62	7.65	7.69	7.71
Open Circuit Voltage Voc(V)	45.8	46.1	46.4	46.6	46.9	47.1
Short Circuit Current Isc(A)	7.97	8.02	8.06	8.10	8.15	8.19

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	45°C ±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

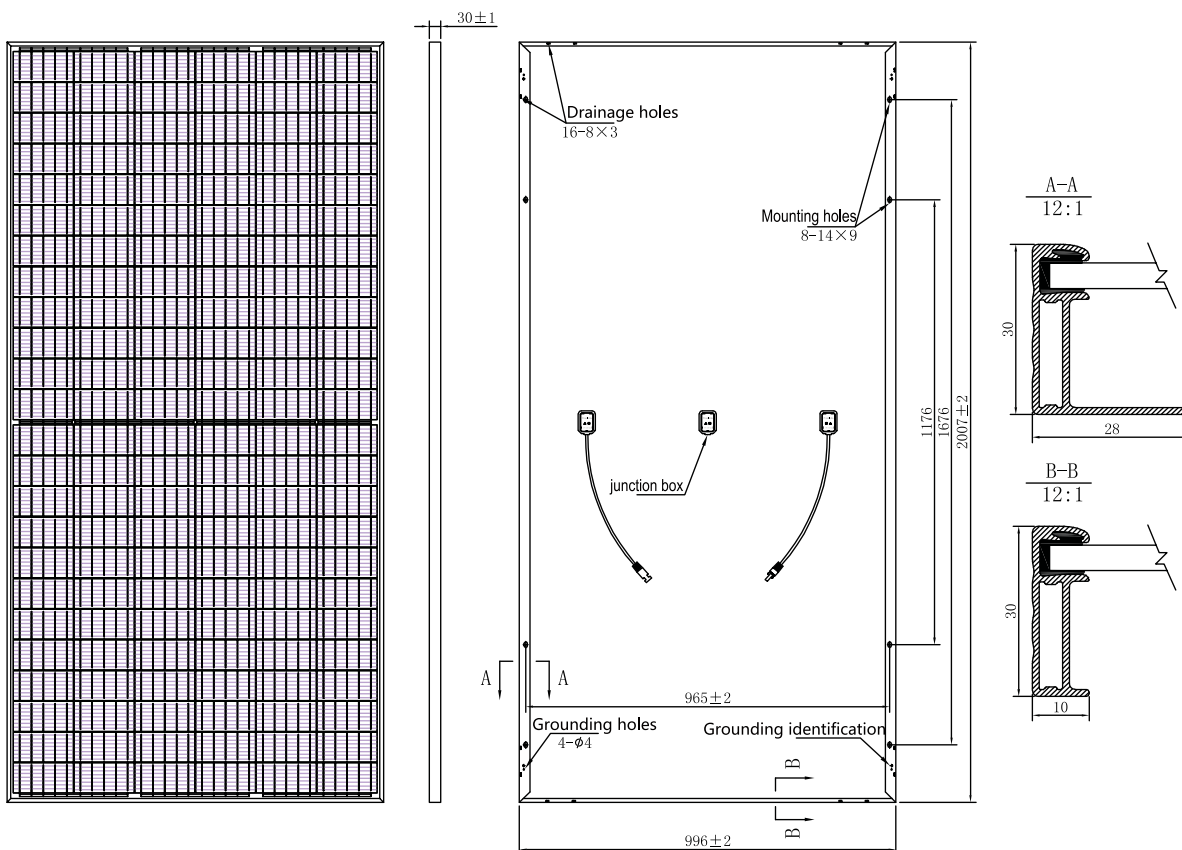
MECHANICAL DATA

Solar cells	Mono 158.75*79.375mm
Cells orientation	144(6*24)
Module dimension	2007×996×30 mm(With Frame)
Weight	26 kg
Glass	2.0mm+2.0mm heat strengthened glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



ZXM6-NHLD120 SERIES

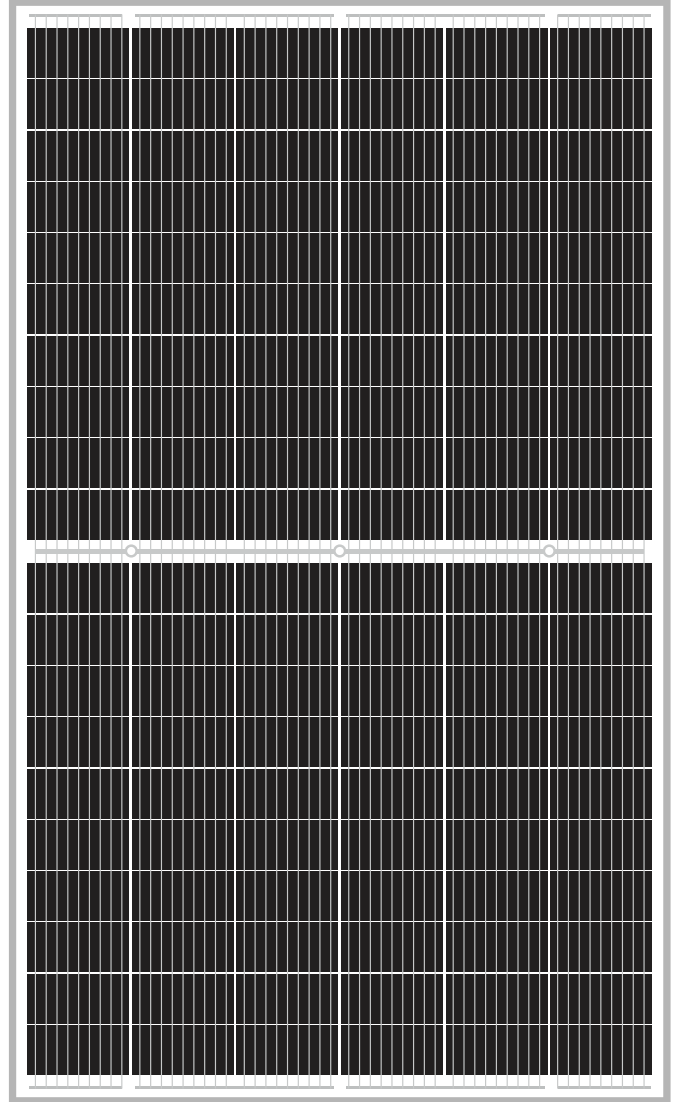
SOLAR 9BB HALF-CELL LIGHT-WEIGHT DOUBLE GLASS MONO PV MODULE

320W-325W-330W-335W-340W-345W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-NHLD120 double glass modules by UNITECH SOLAR feature have both decorative and shading functions. They represent the perfect choice for BIPV and BAPV construction applications. This allows you to produce clean energy while reducing your energy bill.

UNITECH SOLAR'S ZXM6-NHLD120 double glass solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product.

12 years product warranty/25 years output warranty
0.5% Annual Degradation over 30 years



More power output

Module RS decreases, FF (fill factor) increases, power gain is stable above 2%, and can be increased by 5~10W



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-NHLD120 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Easy to install

The module is very light in weight so the installation is easier and transport costs are lower



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	36
Piece/Container	1008

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-NHLD120-320/M	ZXM6-NHLD120-325/M	ZXM6-NHLD120-330/M	ZXM6-NHLD120-335/M	ZXM6-NHLD120-340/M	ZXM6-NHLD120-345/M
Nominal Power Watt Pmax(W)	320	325	330	335	340	345
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	33.4	33.6	33.8	34.1	34.3	34.5
Maximum Power Current Imp(A)	9.59	9.68	9.77	9.85	9.92	10.01
Open Circuit Voltage Voc(V)	40.1	40.3	40.5	40.8	41.0	41.2
Short Circuit Current Isc(A)	10.16	10.25	10.34	10.43	10.52	10.60
Module Efficiency %	18.83	19.12	19.42	19.71	20.01	20.30

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	238.3	241.9	245.5	248.7	252.0	255.8
Maximum Power Voltage Vmpp(V)	30.9	31.1	31.3	31.4	31.5	31.7
Maximum Power Current Impp(A)	7.72	7.79	7.85	7.92	7.99	8.06
Open Circuit Voltage Voc(V)	37.3	37.5	37.7	37.8	38.0	38.2
Short Circuit Current Isc(A)	8.20	8.28	8.35	8.43	8.50	8.56

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	44°C ±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

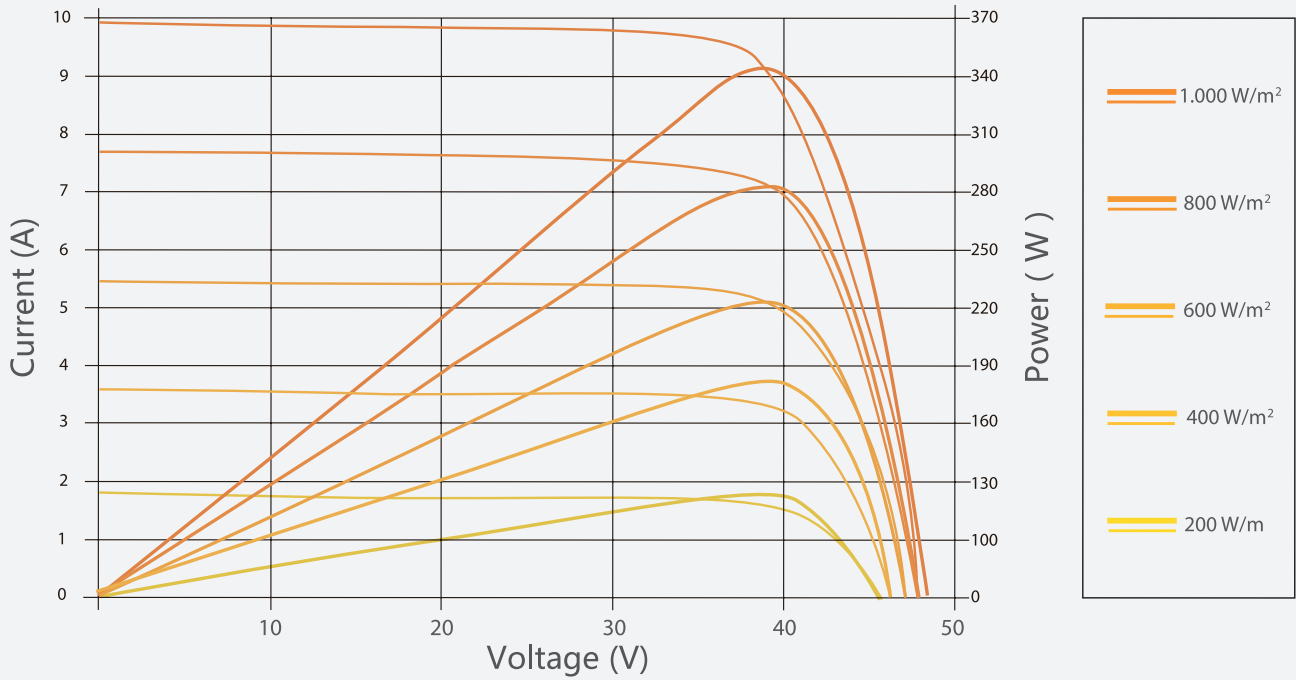
WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

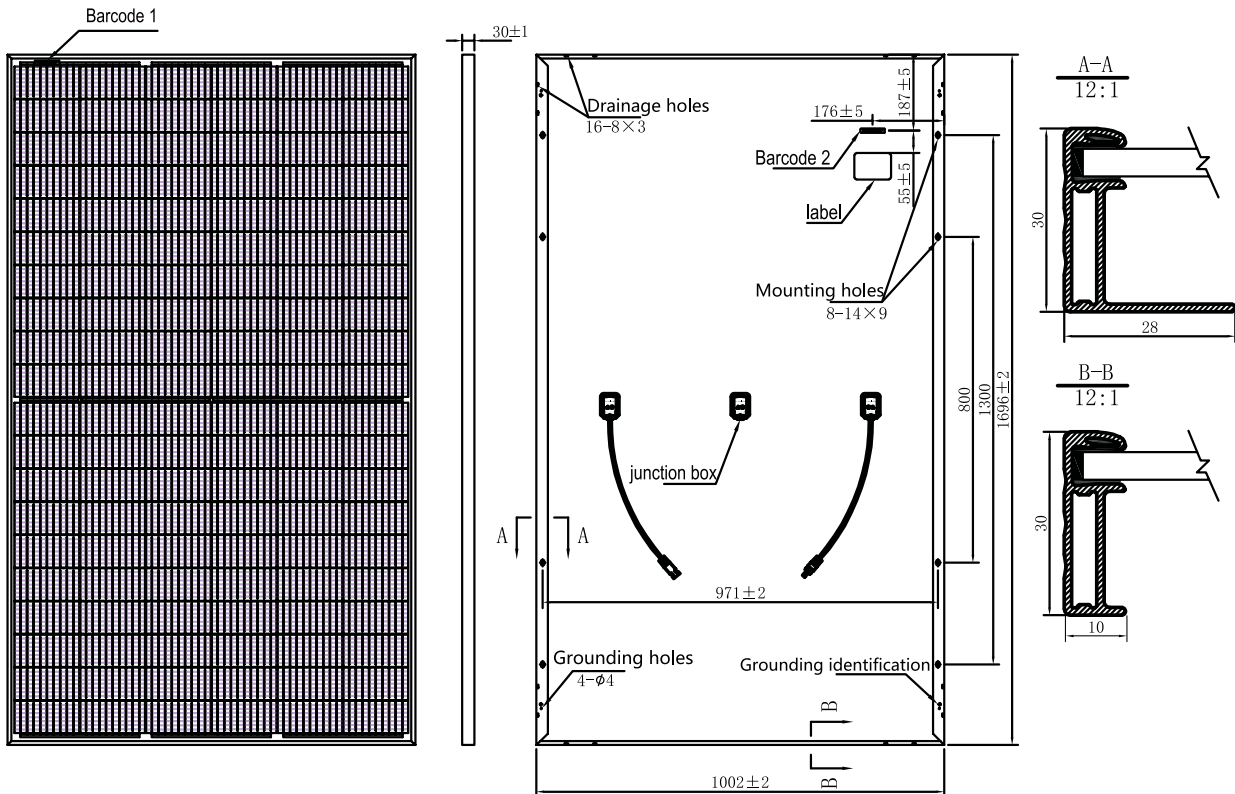
MECHANICAL DATA

Solar cells	Mono 158.75*79.375mm
Cells orientation	120(6×20)
Module dimension	1696×1002×30 mm(With Frame)
Weight	22.5 kg
Glass	2.0mm+2.0mm heat strengthened glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



ZXM6-NHLD144 SERIES

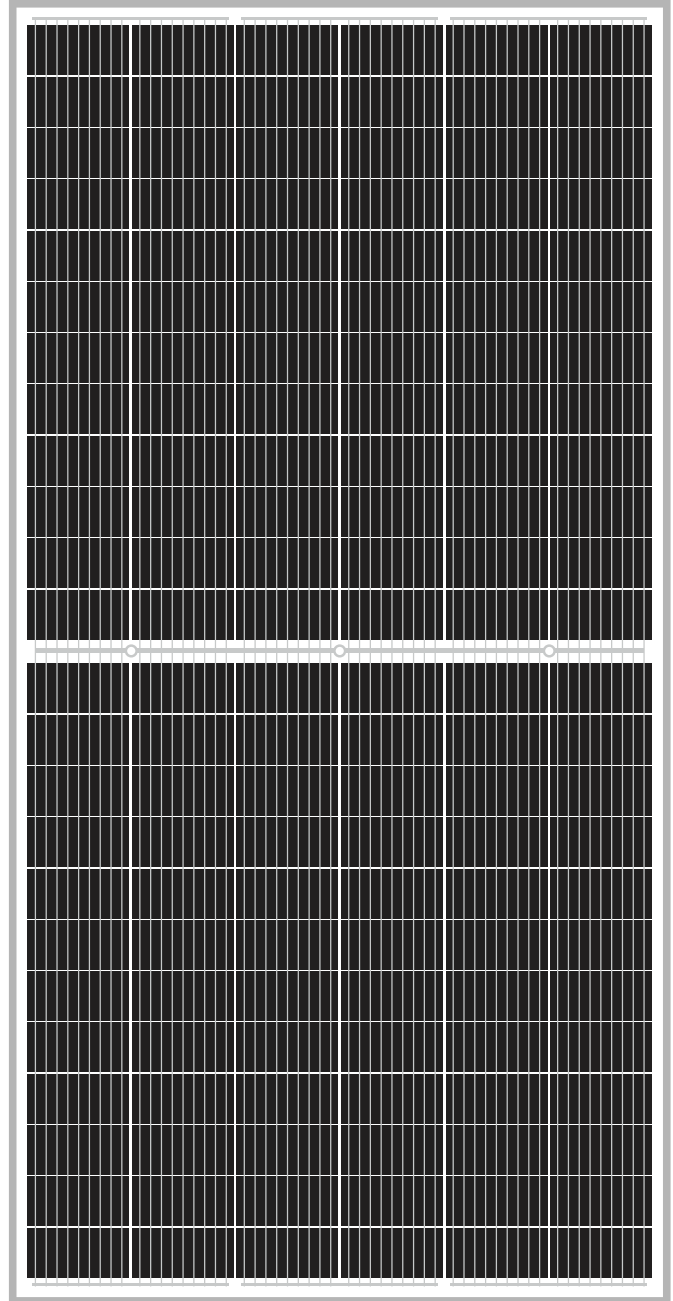
SOLAR 9BB HALF-CELL LIGHT-WEIGHT DOUBLE GLASS MONO PV MODULE

390W-395W-400W-405W-410W-415W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-NHLD144 double glass modules by UNITECH SOLAR feature have both decorative and shading functions. They represent the perfect choice for BIPV and BAPV construction applications. This allows you to produce clean energy while reducing your energy bill.

UNITECH SOLAR'S ZXM6-NHLD144 double glass solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product.

12 years product warranty/25 years output warranty
0.5% Annual Degradation over 30 years



More power output

Module RS decreases, FF (fill factor) increases, power gain is stable above 2%, and can be increased by 5~10W



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-NHLD144 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Easy to install

The module is very light in weight so the installation is easier and transport costs are lower



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	36
Piece/Container	792

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-NHLD144-390/M	ZXM6-NHLD144-395/M	ZXM6-NHLD144-400/M	ZXM6-NHLD144-405/M	ZXM6-NHLD144-410/M	ZXM6-NHLD144-415/M
Nominal Power Watt Pmax(W)	390	395	400	405	410	415
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	40.8	41.0	41.2	41.4	41.6	41.8
Maximum Power Current Imp(A)	9.56	9.64	9.71	9.79	9.86	9.94
Open Circuit Voltage Voc(V)	48.4	48.6	48.8	49.0	49.2	49.6
Short Circuit Current Isc(A)	10.06	10.11	10.18	10.24	10.30	10.39
Module Efficiency %	19.23	19.48	19.72	19.97	20.22	20.46

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	289.0	293.1	296.7	300.5	304.0	306.9
Maximum Power Voltage Vmpp(V)	37.8	38.0	38.2	38.4	38.6	38.7
Maximum Power Current Impp(A)	7.65	7.71	7.77	7.82	7.87	7.93
Open Circuit Voltage Voc(V)	45.0	45.2	45.4	45.5	45.7	45.9
Short Circuit Current Isc(A)	8.12	8.17	8.22	8.27	8.32	8.39

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	44°C ±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

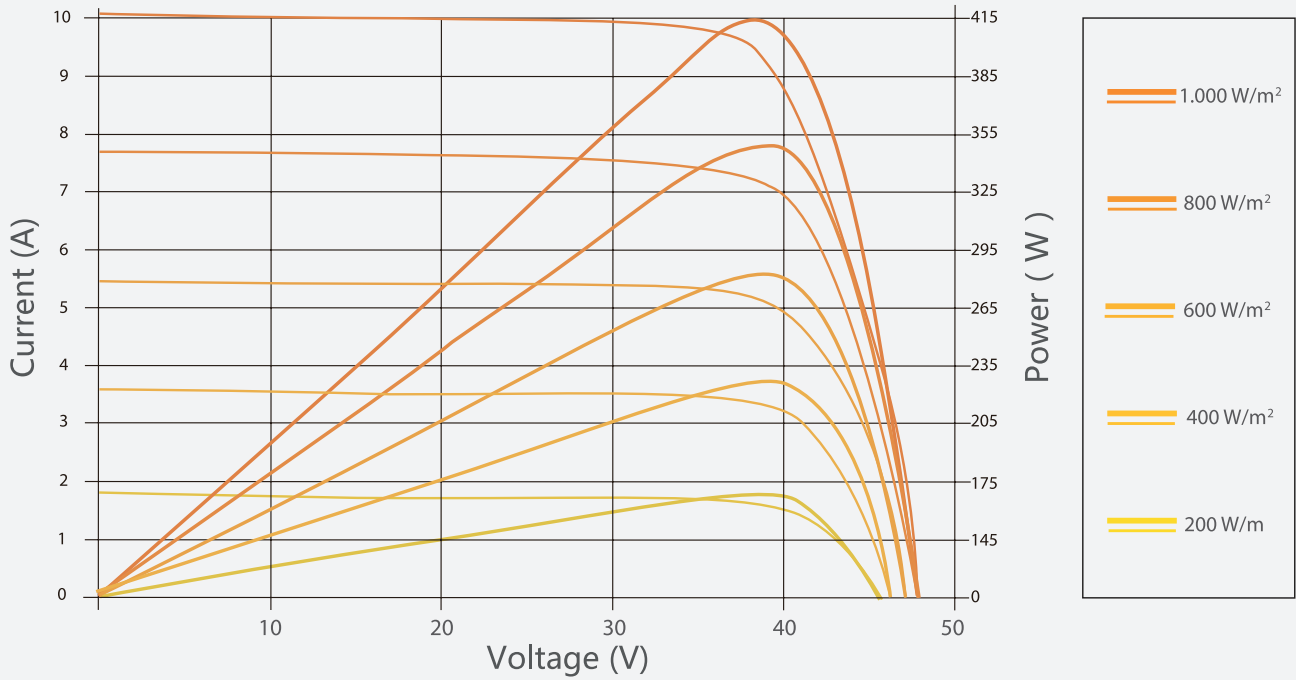
WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

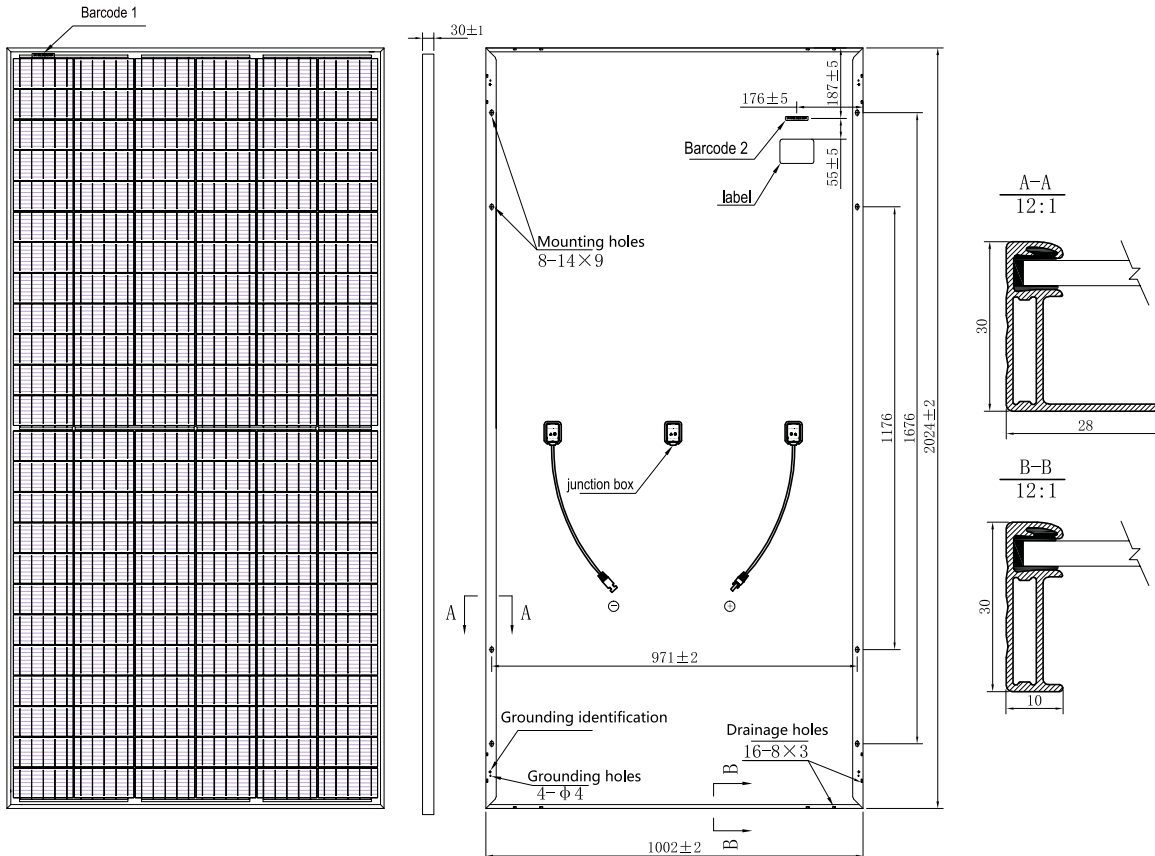
MECHANICAL DATA

Solar cells	Mono 158.75*79.375mm
Cells orientation	144(6×24)
Module dimension	2024×1002×30 mm(With Frame)
Weight	26.5 kg
Glass	2.0mm+2.0mm heat strengthened glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



ZXM6-NHLD144 SERIES

SOLAR 9BB HALF-CELL LIGHT-WEIGHT DOUBLE GLASS MONO PV MODULE

420W-425W-430W-435W-440W-445W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-NHLD144 double glass modules by UNITECH SOLAR feature have both decorative and shading functions. They represent the perfect choice for BIPV and BAPV construction applications. This allows you to produce clean energy whilst reducing your energy bill.

UNITECH SOLAR'S ZXM6-NHLD144 double glass solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product.

12 years product warranty/25 years output warranty
0.5% Annual Degradation over 30 years



More power output

Module RS decreases, FF (fill factor) increases, power gain is stable above 2%, and can be increased by 5~10W



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-NHLD144 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



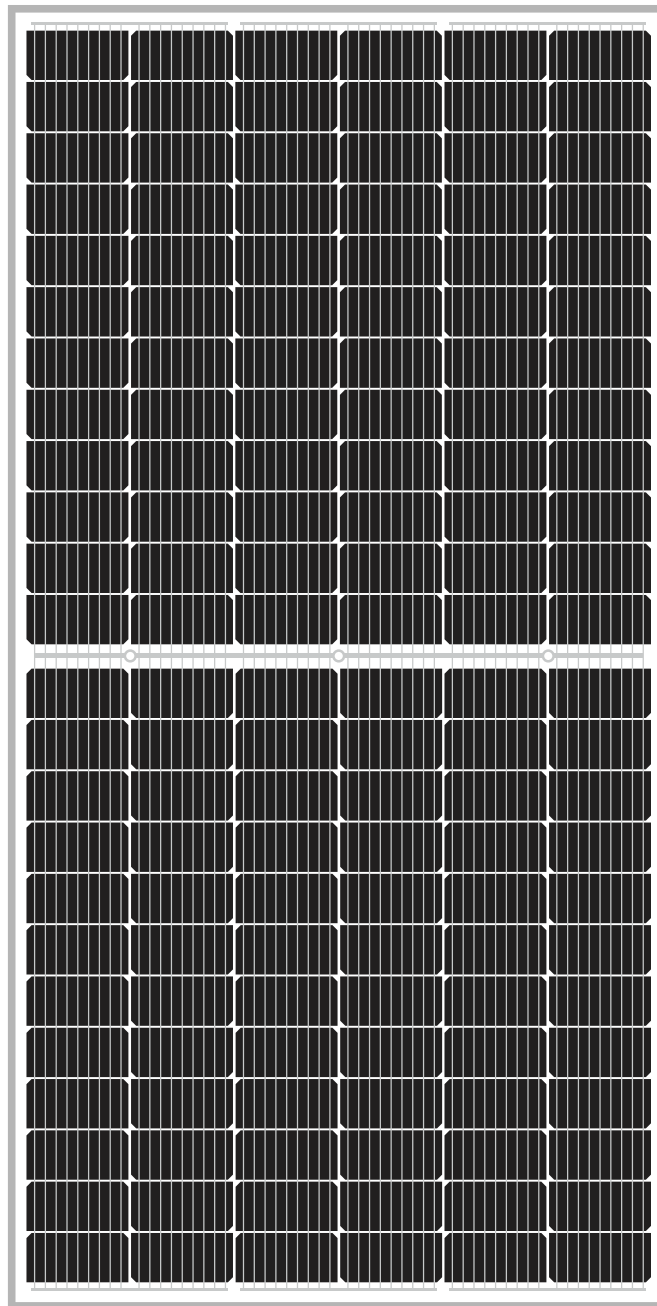
Easy to install

The module is very light in weight so the installation is easier and transport costs are lower



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost



PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	36
Piece/Container	792

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-NHLD144-420/M	ZXM6-NHLD144-425/M	ZXM6-NHLD144-430/M	ZXM6-NHLD144-435/M	ZXM6-NHLD144-440/M	ZXM6-NHLD144-445/M
Nominal Power Watt Pmax(W)	420	425	430	435	440	445
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	40.2	40.4	40.6	40.8	41.0	41.2
Maximum Power Current Imp(A)	10.45	10.52	10.60	10.67	10.74	10.81
Open Circuit Voltage Voc(V)	48.7	48.9	49.1	49.3	49.5	49.7
Short Circuit Current Isc(A)	10.94	11.02	11.10	11.17	11.25	11.32
Module Efficiency %	19.32	19.55	19.78	20.01	20.24	20.47

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	313.5	317.1	321.0	324.7	328.4	332.1
Maximum Power Voltage Vmpp(V)	37.7	37.8	38.0	38.2	38.3	38.5
Maximum Power Current Impp(A)	8.33	8.39	8.45	8.50	8.56	8.62
Open Circuit Voltage Voc(V)	45.4	45.6	45.8	46.0	46.2	46.2
Short Circuit Current Isc(A)	8.84	8.90	8.96	9.02	9.09	9.14

*NMOT(Nominal module operating temperature):Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	44°C ±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

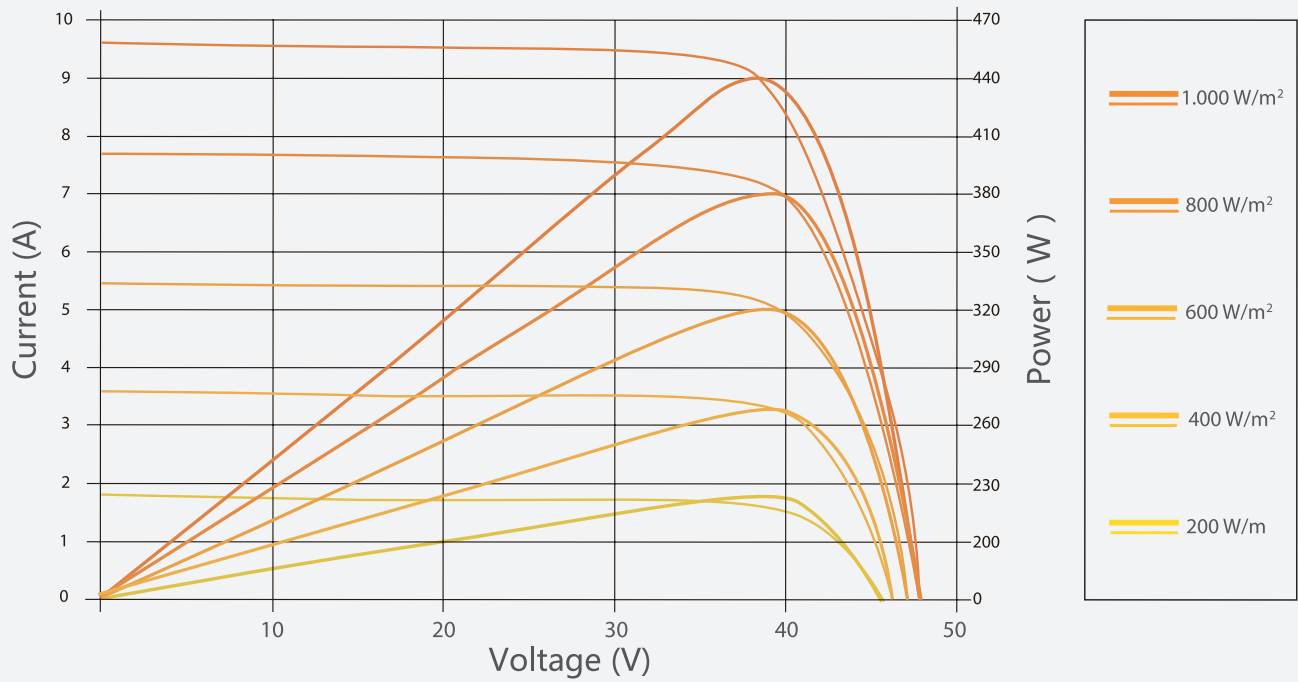
WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

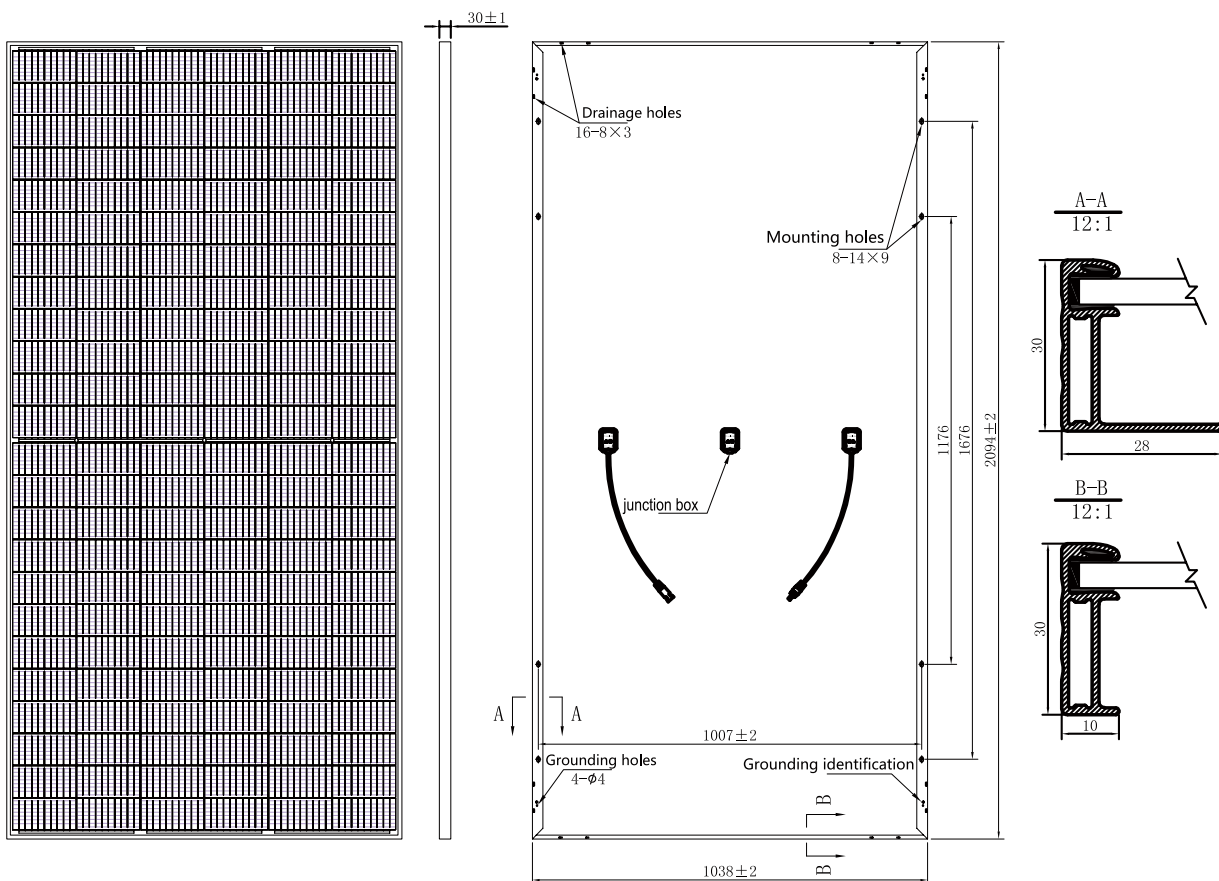
MECHANICAL DATA

Solar cells	Mono 166×83mm
Cells orientation	144(6×24)
Module dimension	2094×1038×30 mm(With Frame)
Weight	28 kg
Glass	2.0mm+2.0mm heat strengthened glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



ZXP6-HLD120 SERIES

SOLAR 5BB HALF-CELL LIGHT-WEIGHT DOUBLE GLASS MONO PV MODULE

275W-280W-285W-290W-295W-300W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXP6-HLD120 double glass modules by UNITECH SOLAR feature have both decorative and shading functions. They represent the perfect choice for BIPV and BAPV construction applications. This allows you to produce clean energy while reducing your energy bill.

UNITECH SOLAR'S ZXP6-HLD120 double glass solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product.

12 years product warranty/25 years output warranty
0.5% Annual Degradation over 30 years



More power output

Module RS decreases, FF (fill factor) increases, power gain is stable above 2%, and can be increased by 5~10W



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXP6-HLD120 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



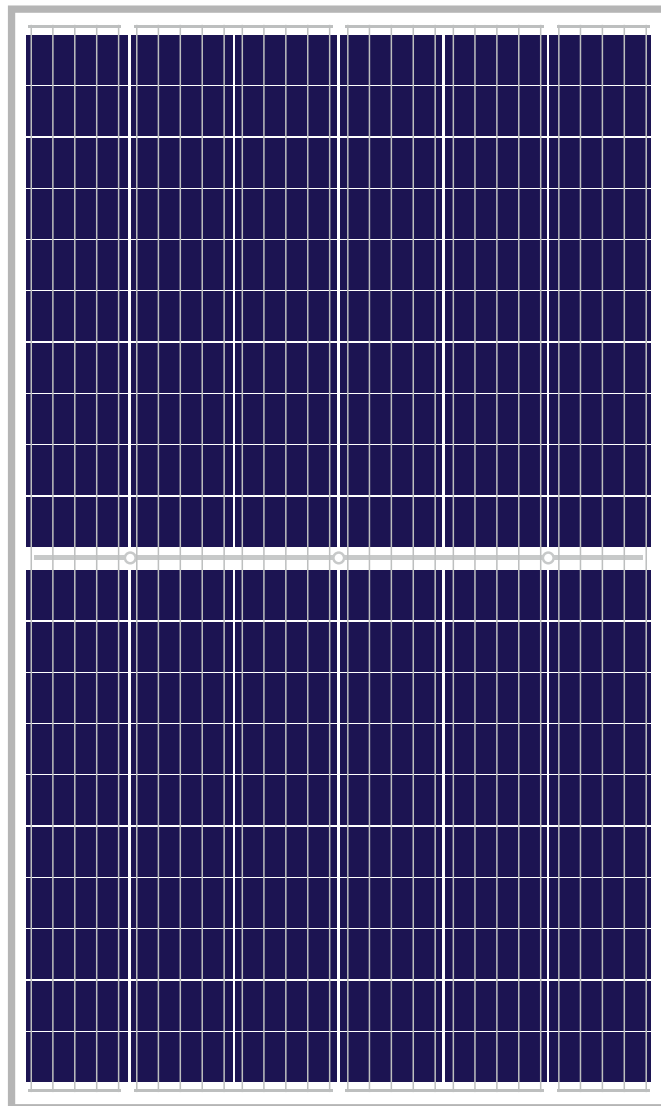
Easy to install

The module is very light in weight so the installation is easier and transport costs are lower



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost



PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	36
Piece/Container	1008

ELECTRICAL PROPERTIES | STC*

Module Type	ZXP6-HLD120 -275/P	ZXP6-HLD120 -280/P	ZXP6-HLD120 -285/P	ZXP6-HLD120 -290/P	ZXP6-HLD120 -295/P	ZXP6-HLD120 -300/P
Nominal Power Watt Pmax(W)	275	280	285	290	295	300
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	31.5	31.7	31.9	32.1	32.3	32.5
Maximum Power Current Imp(A)	8.74	8.84	8.94	9.04	9.14	9.24
Open Circuit Voltage Voc(V)	38.5	38.7	38.9	39.1	39.3	39.5
Short Circuit Current Isc(A)	9.15	9.40	9.26	9.38	9.47	9.58
Module Efficiency %	16.50	16.80	17.10	17.40	17.70	18.00

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	202.7	206.4	210.2	214.1	219.4	223.2
Maximum Power Voltage Vmpp(V)	29.3	29.5	29.7	29.9	30.4	30.5
Maximum Power Current Impp(A)	6.92	7.00	7.08	7.16	7.23	7.31
Open Circuit Voltage Voc(V)	35.5	35.6	35.8	36.0	36.4	36.6
Short Circuit Current Isc(A)	7.36	7.43	7.51	7.58	7.66	7.74

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	45°C ±2°C
Temperature coefficient of Pmax	-0.39%/°C
Temperature coefficient of Voc	-0.31%/°C
Temperature coefficient of Isc	0.06%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

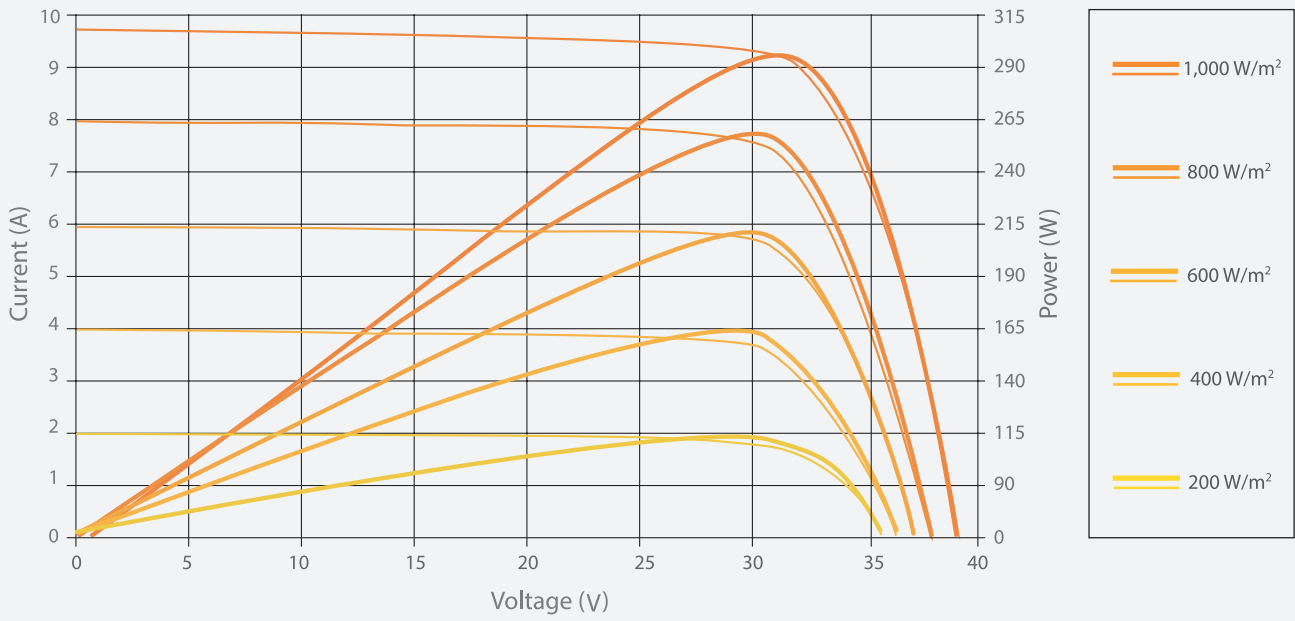
MECHANICAL DATA

Solar cells	
Cells orientation	
Module dimension	
Weight	
Glass	
Junction box	
Cables	
Connectors	

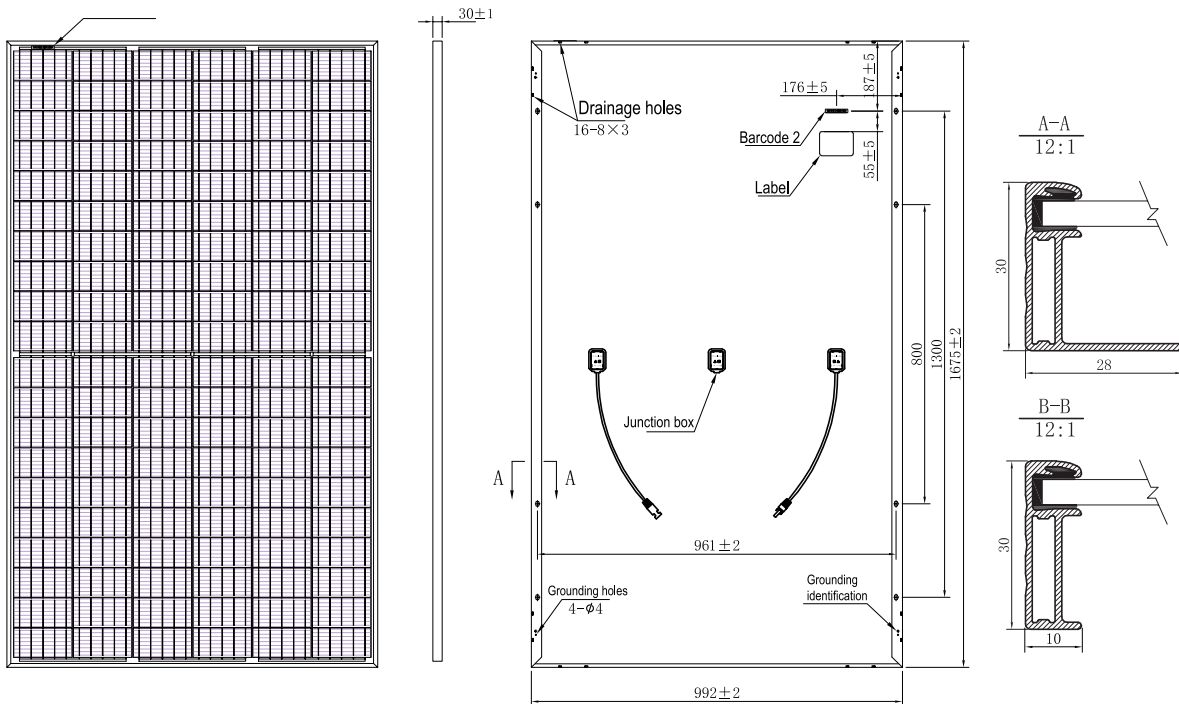
WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	15 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



ZXP6-HLD144 SERIES

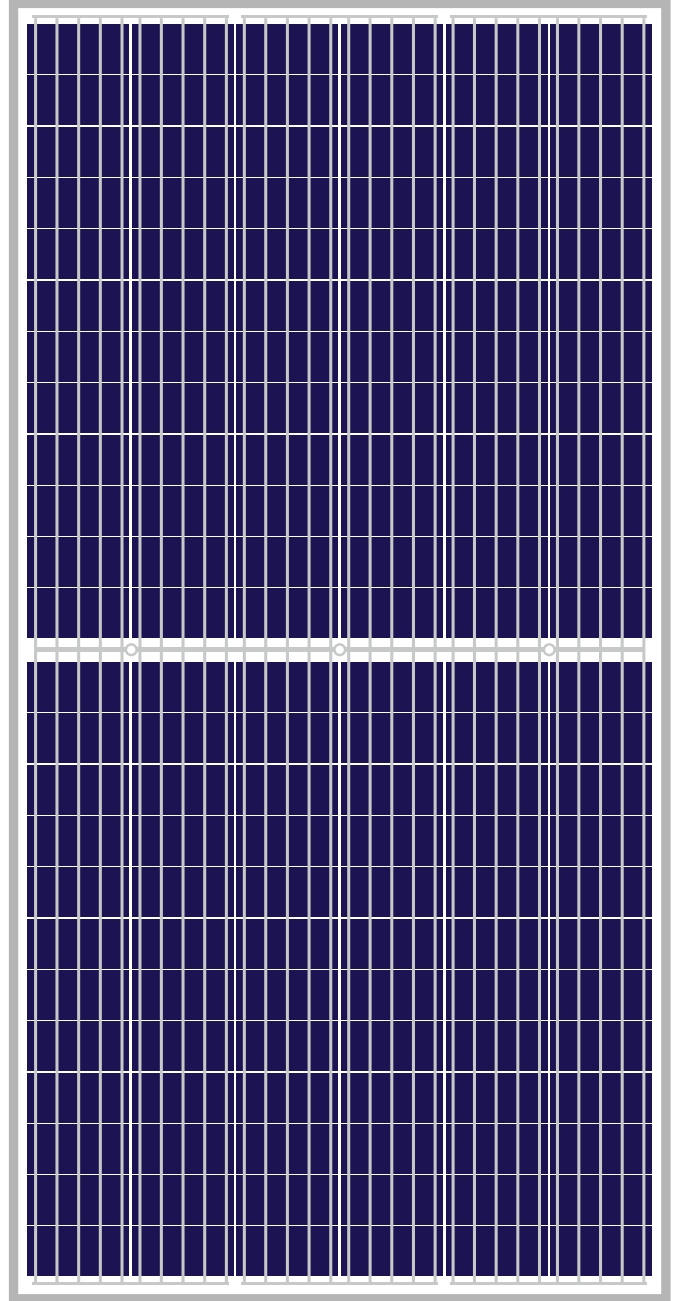
SOLAR 5BB HALF-CELL LIGHT-WEIGHT DOUBLE GLASS MONO PV MODULE

335W-340W-345W-350W-355W-360W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXP6-HLD144 double glass modules by UNITECH SOLAR feature have both decorative and shading functions. They represent the perfect choice for BIPV and BAPV construction applications. This allows you to produce clean energy while reducing your energy bill.

UNITECH SOLAR'S ZXP6-HLD144 double glass solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product.

12 years product warranty/25 years output warranty
0.5% Annual Degradation over 30 years



More power output

Module RS decreases, FF (fill factor) increases, power gain is stable above 2%, and can be increased by 5~10W



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXP6-HLD144 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Easy to install

The module is very light in weight so the installation is easier and transport costs are lower



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	36
Piece/Container	792

ELECTRICAL PROPERTIES | STC*

Module Type	ZXP6-HLD144 -335/P	ZXP6-HLD144 -340/P	ZXP6-HLD144 -345/P	ZXP6-HLD144 -350/P	ZXP6-HLD144 -355/P	ZXP6-HLD144 -360/P
Nominal Power Watt Pmax(W)	335	340	345	350	355	360
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	37.9	38.1	38.3	38.5	38.7	38.9
Maximum Power Current Imp(A)	8.84	8.93	9.01	9.10	9.18	9.26
Open Circuit Voltage Voc(V)	46.6	46.8	47.0	47.2	47.4	47.6
Short Circuit Current Isc(A)	9.16	9.22	9.28	9.37	9.45	9.53
Module Efficiency %	16.89	17.14	17.39	17.64	17.89	18.15

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	246.7	250.7	255.7	259.5	263.0	268.7
Maximum Power Voltage Vmpp(V)	35.5	35.5	36.1	36.4	36.6	36.8
Maximum Power Current Impp(A)	6.96	6.96	7.09	7.14	7.19	7.30
Open Circuit Voltage Voc(V)	42.8	43.0	43.2	43.4	43.6	44.0
Short Circuit Current Isc(A)	7.40	7.51	7.51	7.57	7.63	7.72

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	45°C ±2°C
Temperature coefficient of Pmax	-0.39%/°C
Temperature coefficient of Voc	-0.31%/°C
Temperature coefficient of Isc	0.06%/°C

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

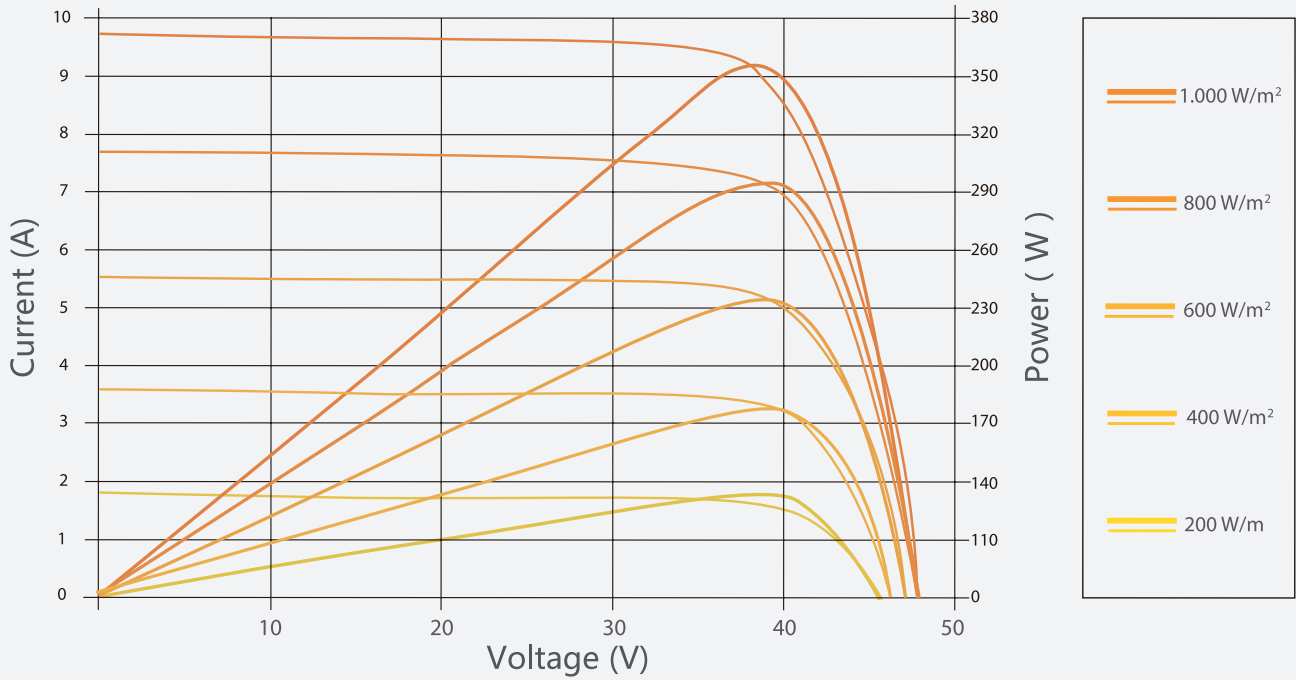
WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	15 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

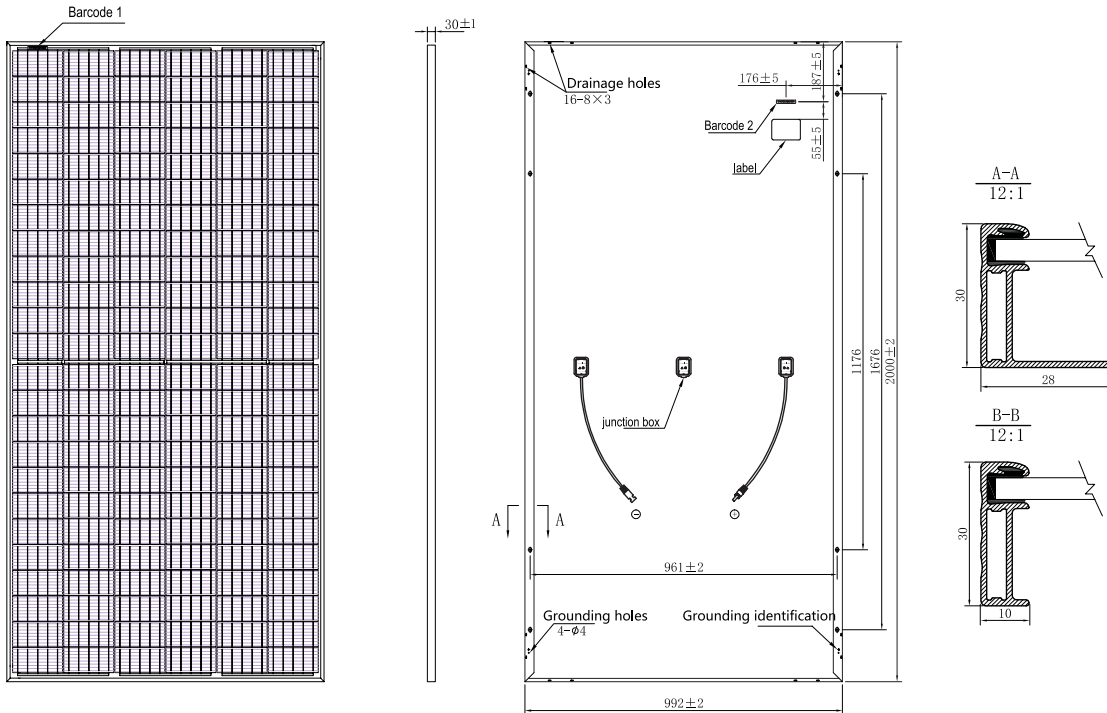
MECHANICAL DATA

Solar cells	Poly 156.75*78.375mm
Cells orientation	144(6×24)
Module dimension	2000×992×30 mm(With Frame)
Weight	25.5 kg
Glass	2.0mm+2.0mm heat strengthened glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

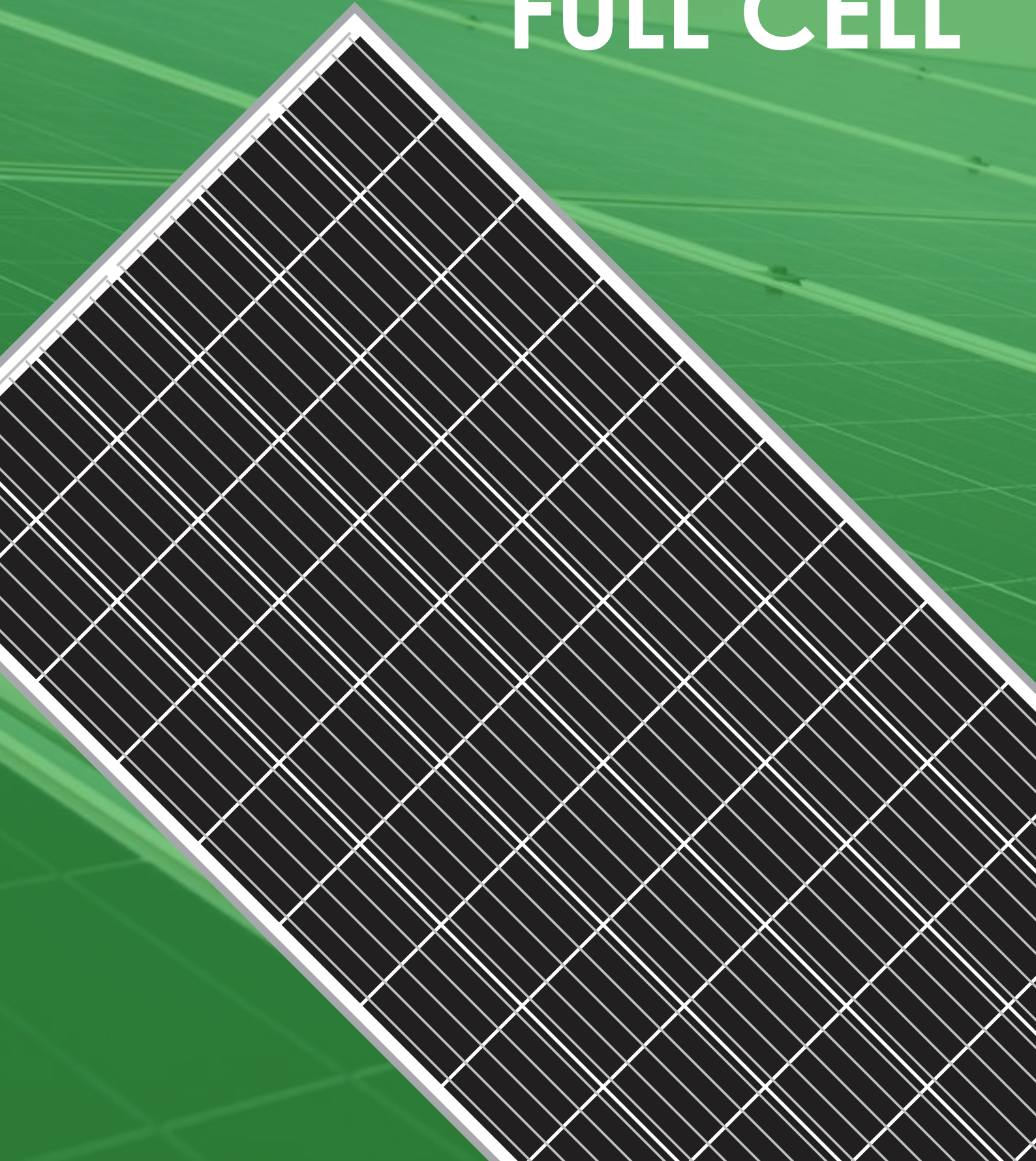
I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



BIFACIAL LIGHT DOUBLE GLASS FULL CELL



ZXM6-LDD72 SERIES

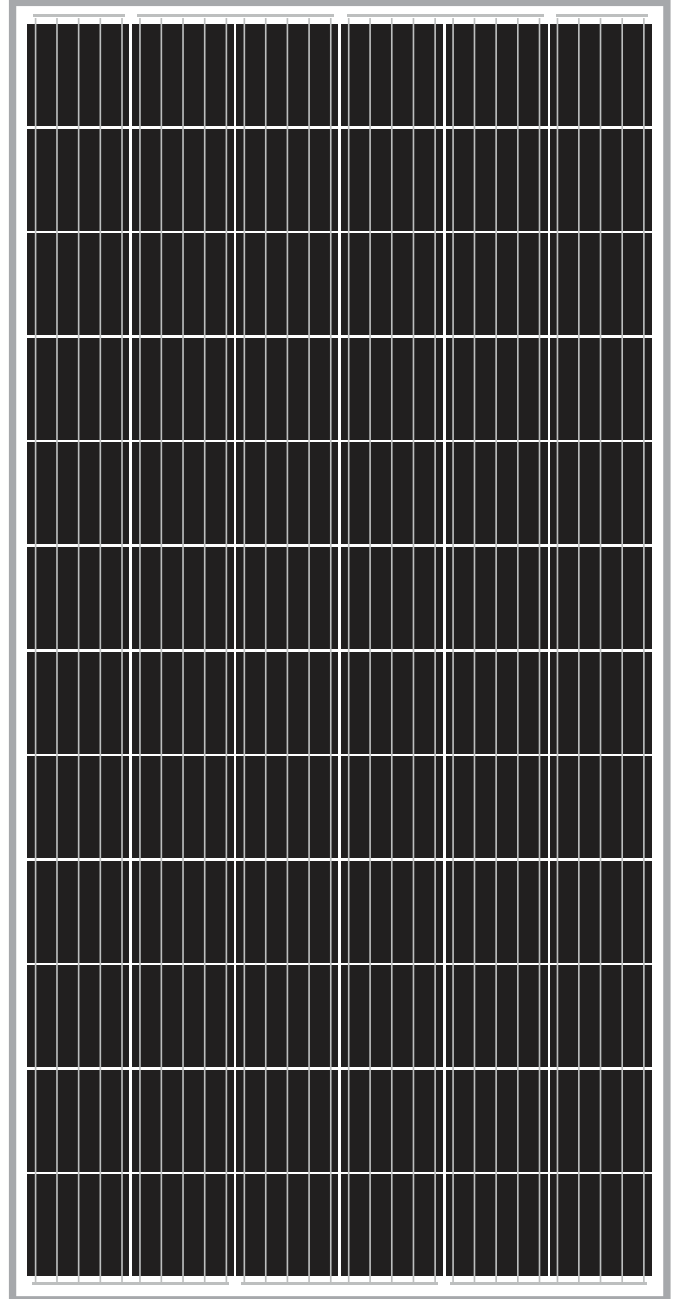
5BB P-TYPE HIGH EFFICIENCY MONOCRYSTALLINE BIFACIAL DOUBLE GLASS MODULE

370W-375W-380W-385W-390W-395W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-LDD72 double glass modules by UNITECH SOLAR feature have both decorative and shading functions. They represent the perfect choice for BIPV and BAPV construction applications. This allows you to produce clean energy

While reducing your energy bill. UNITECH SOLAR'S ZXM6-LDD72 double glass solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product.

12 years product warranty/25 years output warranty
0.5% Annual Degradation over 30 years



Bifacial technology

Enables additional energy harvesting from rear side (up to 25%)



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6 LDD72 module caused by PID effect is guaranteed under strict testing condition for mass production



Lower Micro-crack Risk

No internal stress from the symmetrical Bifacial cell scheme



Higher Reliability

Successfully passed various strict tests
6 Salt Mist Corrosion Test / Triple IEC Test
Triple PID Test



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	36
Piece/Container	792

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-LDD72 -370/M	ZXM6-LDD72 -375/M	ZXM6-LDD72 -380/M	ZXM6-LDD72 -385/M	ZXM6-LDD72 -390/M	ZXM6-LDD72 -395/M
Nominal Power Watt Pmax(W)	370	375	380	385	390	395
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	39.7	39.9	40.1	40.3	40.5	40.7
Maximum Power Current Imp(A)	9.32	9.40	9.48	9.56	9.63	9.71
Open Circuit Voltage Voc(V)	47.9	48.1	48.3	48.5	48.7	48.9
Short Circuit Current Isc(A)	9.78	9.87	9.96	10.05	10.14	10.23
Module Efficiency %	18.33	18.58	18.83	19.08	19.33	19.57

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	273.7	277.3	281.0	284.8	288.3	292.1
Maximum Power Voltage Vmpp(V)	36.7	36.9	37.0	37.2	37.3	37.5
Maximum Power Current Impp(A)	7.46	7.52	7.59	7.66	7.73	7.80
Open Circuit Voltage Voc(V)	44.3	44.5	44.6	44.8	45.0	45.2
Short Circuit Current Isc(A)	7.92	7.99	8.06	8.14	8.21	8.28

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	45°C ±2°C
Temperature coefficient of Pmax	-0.37%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C
Refer Bifacial Factor	70±5%

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

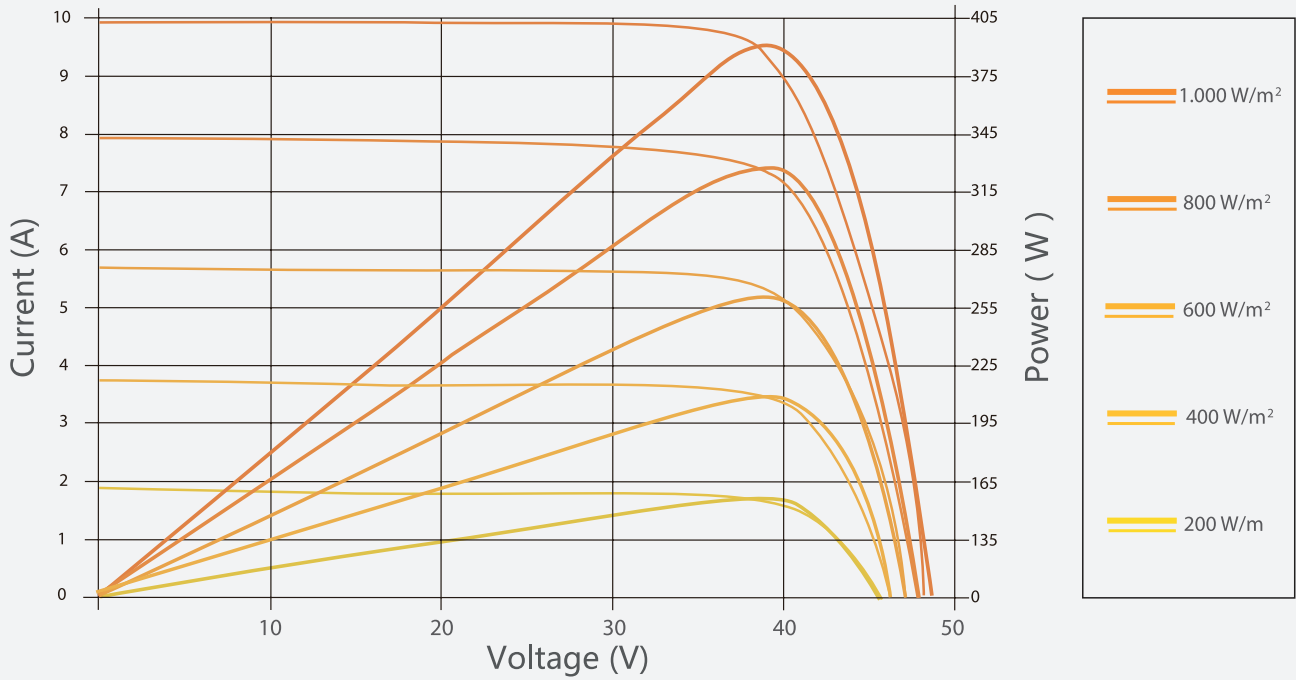
WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

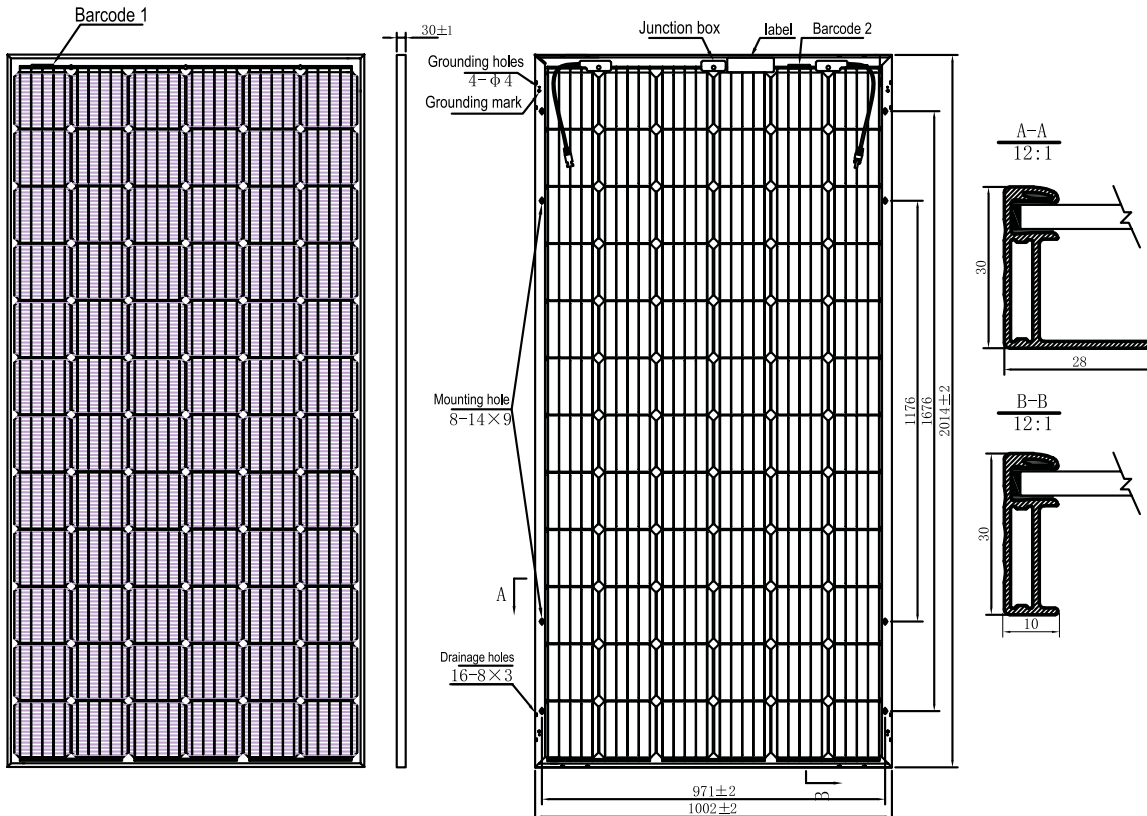
MECHANICAL DATA

Solar cells	Mono 158.75×158.75 mm
Cells orientation	72(6×12)
Module dimension	2014×1002×30 mm(With Frame)
Weight	26 kg
Glass	2.0mm+2.0mm heat strengthened glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

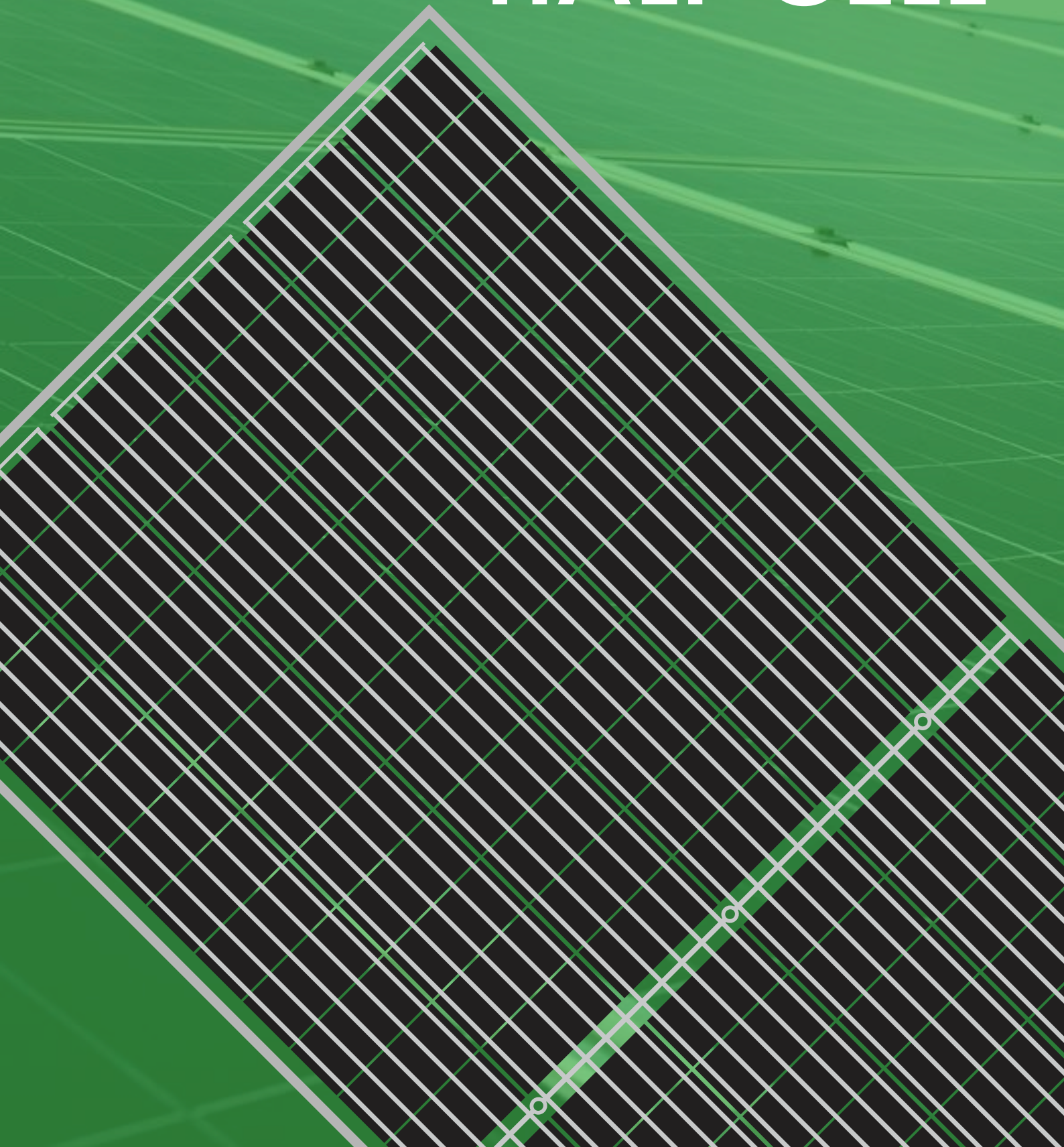
I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



BIFACIAL LIGHT DOUBLE GLASS HALF CELL



ZXM6-HLDD144 SERIES

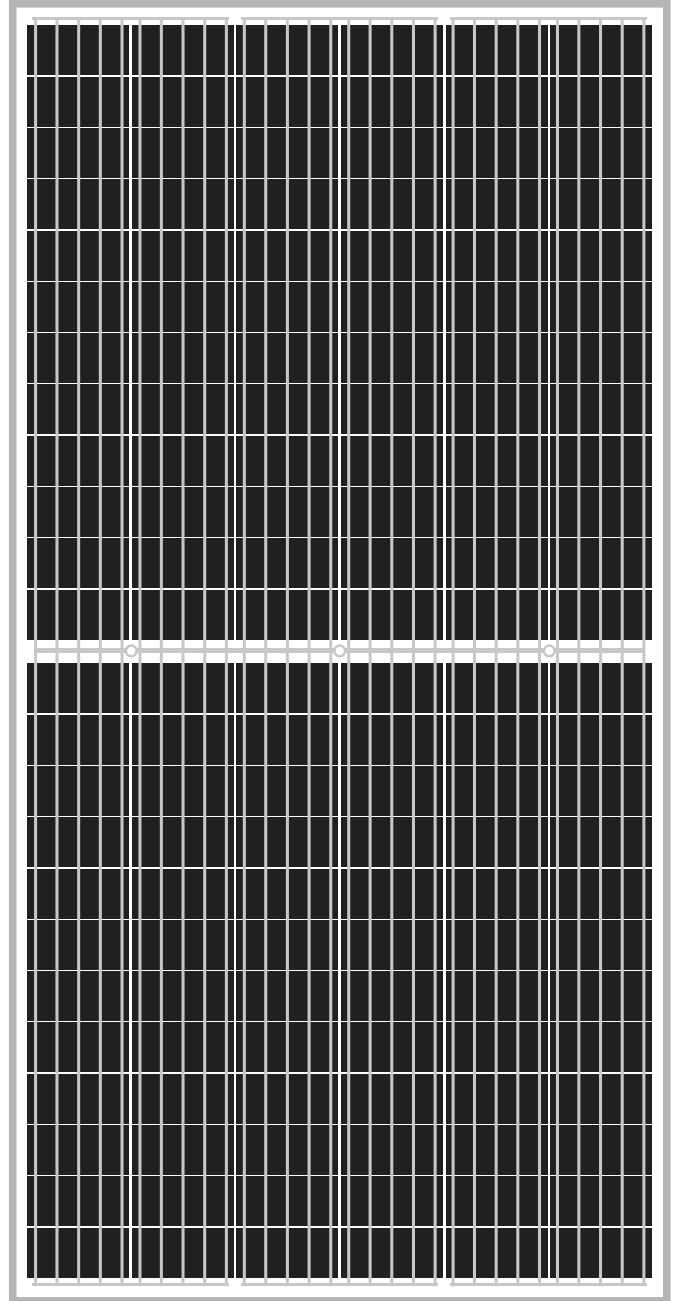
5BB HALF-CELL BIFACIAL LIGHT-WEIGHT DOUBLE GLASS MONO PV MODULE

385W-390W-395W-400W-405W-410W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-HLDD144 double glass modules by UNITECH SOLAR feature have both decorative and shading functions. They represent the perfect choice for BIPV and BAPV construction applications. This allows you to produce clean energy whilst reducing your energy bill.

UNITECH SOLAR'S ZXM6-HLDD144 double glass solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product.

12 years product warranty/25 years output warranty
0.5% Annual Degradation over 30 years



More power output

Module RS decreases, FF (fill factor) increases, power gain is stable above 2%, and can be increased by 5~10W



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-HLDD144 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Bifacial technology

Enables additional energy harvesting from rear side (up to 25%)



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	36
Piece/Container	792

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-HLDD144-385/M	ZXM6-HLDD144-390/M	ZXM6-HLDD144-395/M	ZXM6-HLDD144-400/M	ZXM6-HLDD144-405/M	ZXM6-HLDD144-410/M
Nominal Power Watt Pmax(W)	385	390	395	400	405	410
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	40.3	40.5	40.7	40.9	41.1	41.3
Maximum Power Current Imp(A)	9.56	9.63	9.71	9.78	9.86	9.93
Open Circuit Voltage Voc(V)	48.4	48.6	48.8	49.0	49.2	49.4
Short Circuit Current Isc(A)	10.08	10.16	10.24	10.32	10.40	10.49
Module Efficiency %	19.01	19.26	19.51	19.75	20.00	20.25

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	282.3	285.7	285.7	293.1	297.5	301.0
Maximum Power Voltage Vmpp(V)	37.2	37.3	37.3	37.7	38.0	38.2
Maximum Power Current Impp(A)	7.60	7.66	7.66	7.78	7.83	7.88
Open Circuit Voltage Voc(V)	44.7	44.9	44.9	45.3	45.6	45.8
Short Circuit Current Isc(A)	8.14	8.21	8.21	8.34	8.40	8.47

*NMOT(Nominal module operating temperature):Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	45°C ±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C
Refer Bifacial Factor	70±5%

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

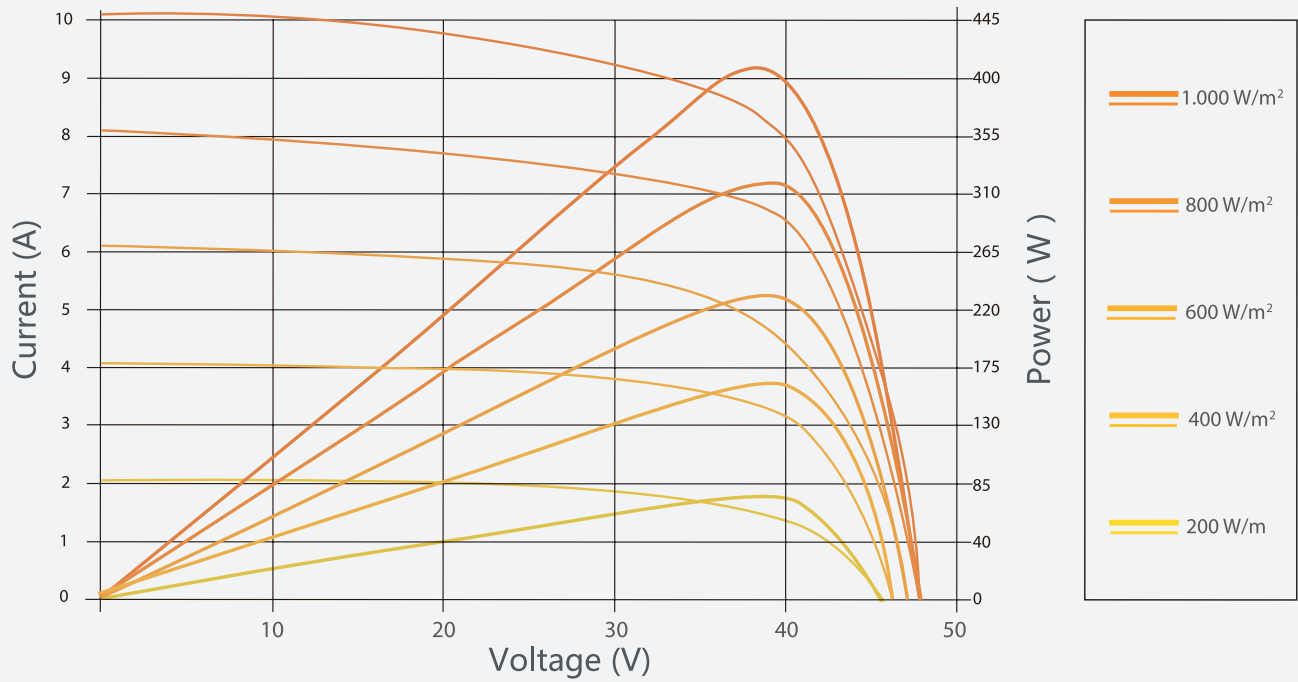
WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

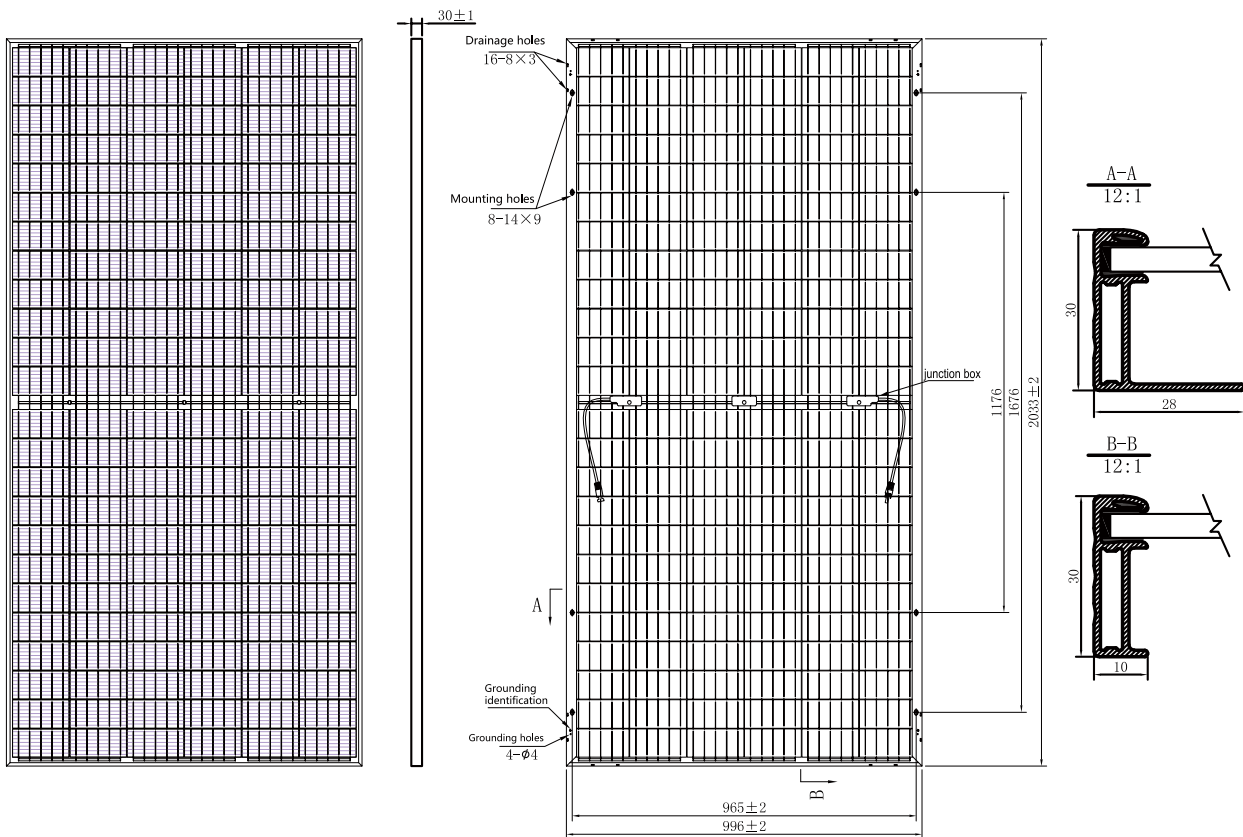
MECHANICAL DATA

Solar cells	Mono 158.75*79.375mm
Cells orientation	144(6×24)
Module dimension	2033×996×30 mm(With Frame)
Weight	26 kg
Glass	2.0mm+2.0mm heat strengthened glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



ZXM6-NHLDD120 SERIES

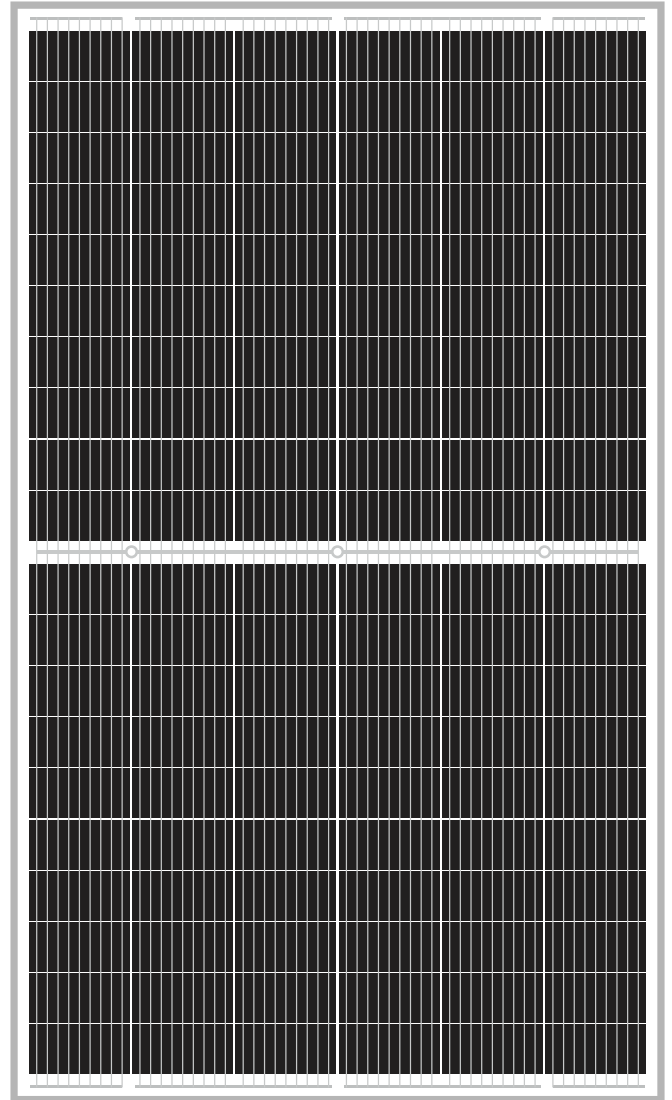
9BB HALF-CELL BIFACIAL LIGHT-WEIGHT DOUBLE GLASS MONO PV MODULE

320W-325W-330W-335W-340W-345W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-NHLDD120 double glass modules by UNITECH SOLAR feature have both decorative and shading functions. They represent the perfect choice for BIPV and BAPV construction applications. This allows you to produce clean energy whilst reducing your energy bill.

UNITECH SOLAR'S ZXM6-NHLDD120 double glass solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product.

12 years product warranty/25 years output warranty
0.5% Annual Degradation over 30 years



More power output

Module RS decreases, FF (fill factor) increases, power gain is stable above 2%, and can be increased by 5~10W



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-NHLDD120 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Easy to install

The module is very light in weight so the installation is easier and transport costs are lower



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	36
Piece/Container	936

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-NHLDD120-320/M	ZXM6-NHLDD120-325/M	ZXM6-NHLDD120-330/M	ZXM6-NHLDD120-335/M	ZXM6-NHLDD120-340/M	ZXM6-NHLDD120-345/M
Nominal Power Watt Pmax(W)	320	325	330	335	340	345
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	33.4	33.6	33.8	34.0	34.2	34.4
Maximum Power Current Imp(A)	9.59	9.68	9.77	9.86	9.95	10.03
Open Circuit Voltage Voc(V)	40.2	40.4	40.6	40.8	41.0	41.2
Short Circuit Current Isc(A)	10.15	10.23	10.31	10.39	10.47	10.55
Module Efficiency %	18.55	18.84	19.13	19.42	19.71	19.99

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	237.2	240.9	243.8	246.4	250.2	253.7
Maximum Power Voltage Vmpp(V)	30.8	31.0	31.2	31.5	31.7	31.9
Maximum Power Current Impp(A)	7.70	7.77	7.81	7.83	7.89	7.97
Open Circuit Voltage Voc(V)	37.3	37.5	37.6	37.8	38.0	38.1
Short Circuit Current Isc(A)	8.20	8.27	8.33	8.40	8.46	8.52

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	44°C ±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C
Refer Bifacial Factor	70±5%

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

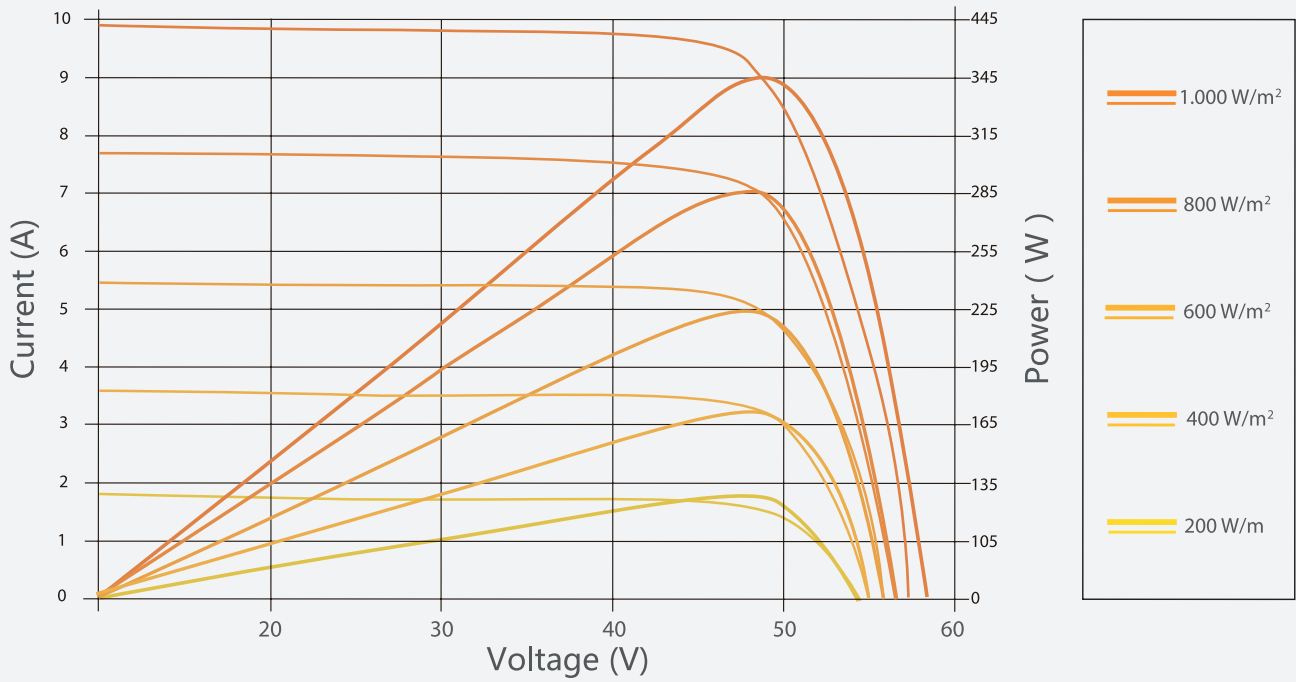
WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

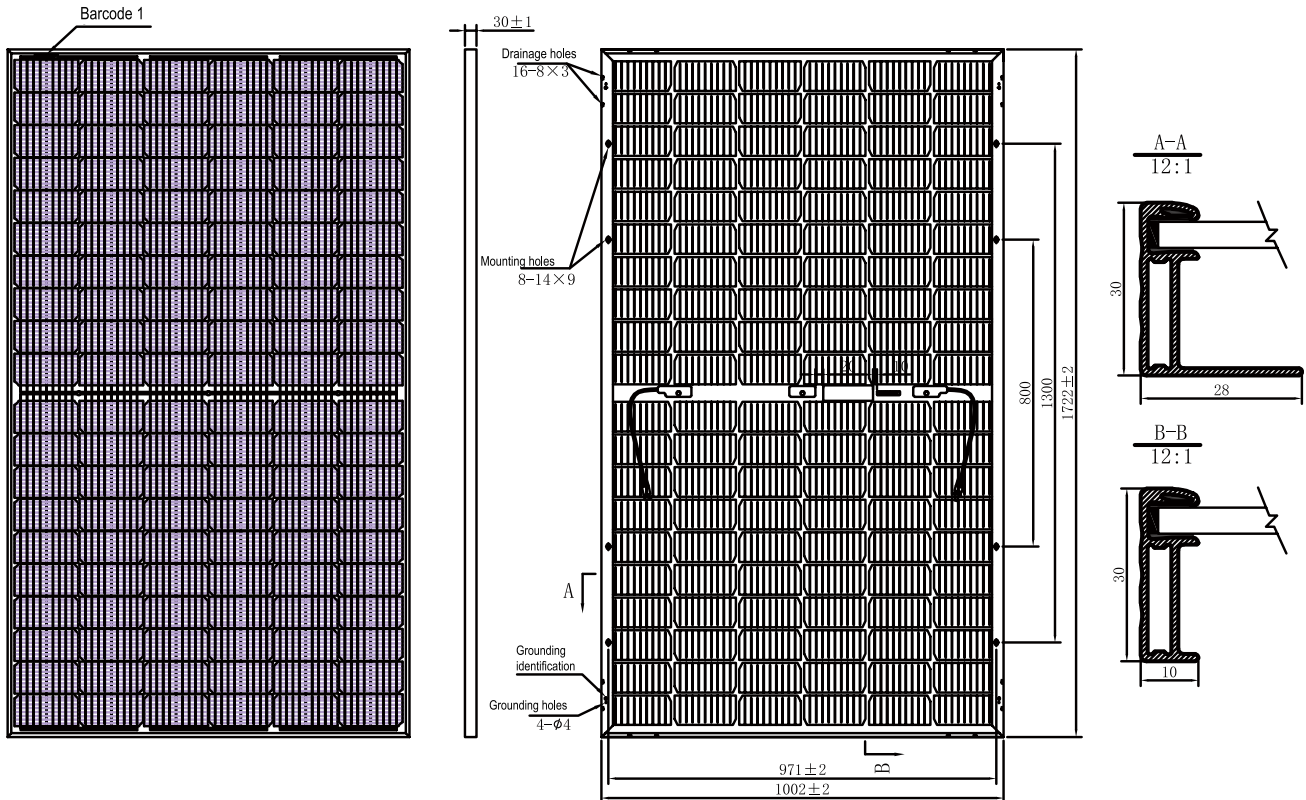
MECHANICAL DATA

Solar cells	Mono 158.75*79.375mm
Cells orientation	120(6×20)
Module dimension	1722×1002×30 mm(With Frame)
Weight	23 kg
Glass	2.0mm+2.0mm heat strengthened glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



ZXM6-NHLDD144 SERIES

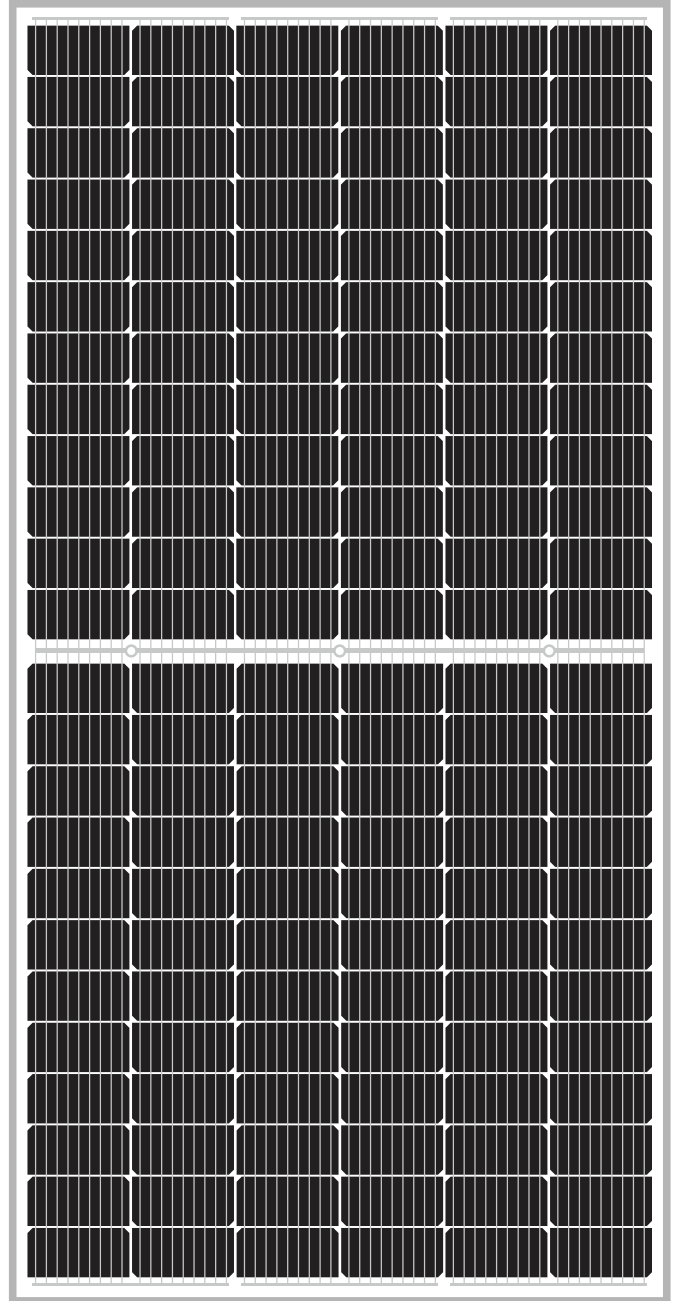
9BB HALF-CELL BIFACIAL LIGHT-WEIGHT DOUBLE GLASS MONO PV MODULE

320W-325W-330W-335W-340W-345W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-NHLDD144 double glass modules by UNITECH SOLAR feature have both decorative and shading functions. They represent the perfect choice for BIPV and BAPV construction applications. This allows you to produce clean energy whilst reducing your energy bill.

UNITECH SOLAR'S ZXM6-NHLDD144 double glass solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product.

12 years product warranty/25 years output warranty
0.5% Annual Degradation over 30 years



More power output

Module RS decreases, FF (fill factor) increases, power gain is stable above 2%, and can be increased by 5~10W



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-NHLDD144 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Bifacial technology

Enables additional energy harvesting from rear side (up to 25%)



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	36
Piece/Container	792

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-NHLDD144-420/M	ZXM6-NHLDD144-425/M	ZXM6-NHLDD144-430/M	ZXM6-NHLDD144-435/M	ZXM6-NHLDD144-440/M	ZXM6-NHLDD144-445/M
Nominal Power Watt Pmax(W)	420	425	430	435	440	445
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	40.9	41.1	41.3	41.5	41.7	41.9
Maximum Power Current Imp(A)	10.27	10.35	10.42	10.49	10.56	10.63
Open Circuit Voltage Voc(V)	49.3	49.5	49.7	49.9	50.1	50.3
Short Circuit Current Isc(A)	10.93	11.00	11.07	11.14	11.21	11.28
Module Efficiency %	19.10	19.33	19.56	19.79	20.01	20.24

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	312.9	316.7	320.3	323.9	327.6	330.6
Maximum Power Voltage Vmpp(V)	37.8	38.0	38.2	38.4	38.5	38.7
Maximum Power Current Impp(A)	8.28	8.34	8.39	8.44	8.50	8.53
Open Circuit Voltage Voc(V)	45.9	46.1	46.3	46.5	46.6	46.8
Short Circuit Current Isc(A)	8.83	8.88	8.94	8.99	9.05	9.11

*NMOT(Nominal module operating temperature):Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	44°C ±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C
Refer Bifacial Factor	70±5%

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

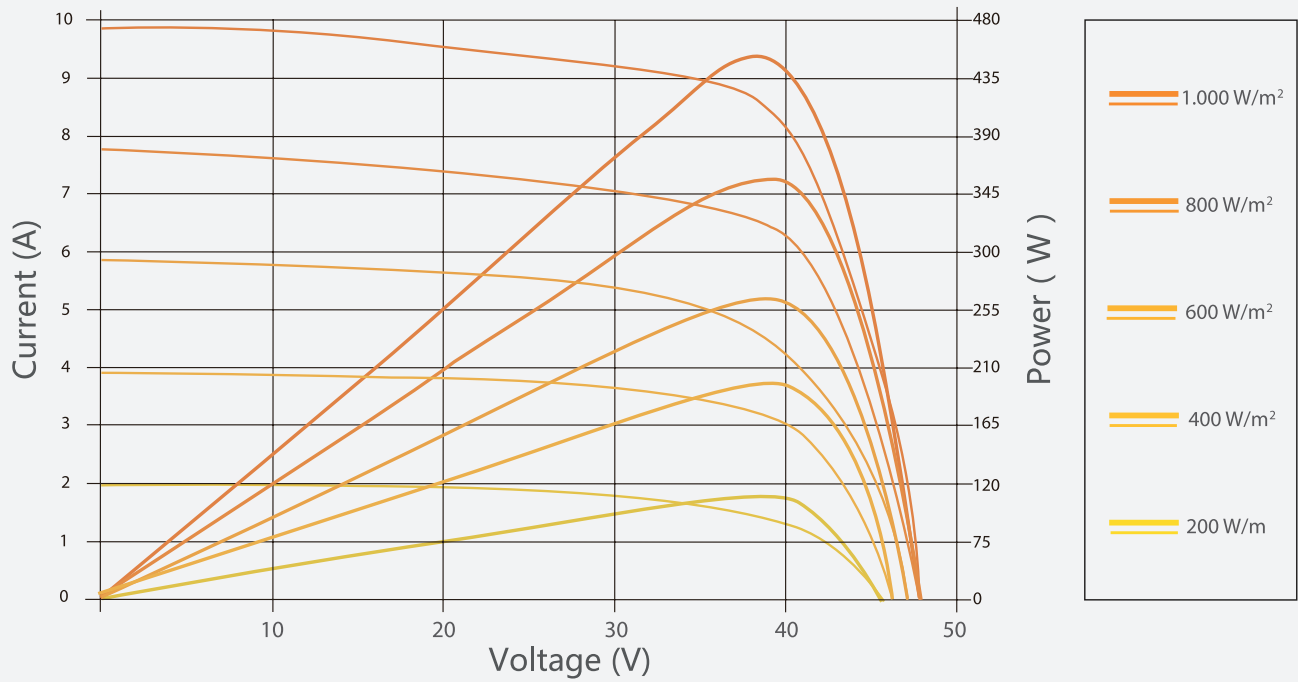
WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/Wind)	5400 Pa / 2400 Pa

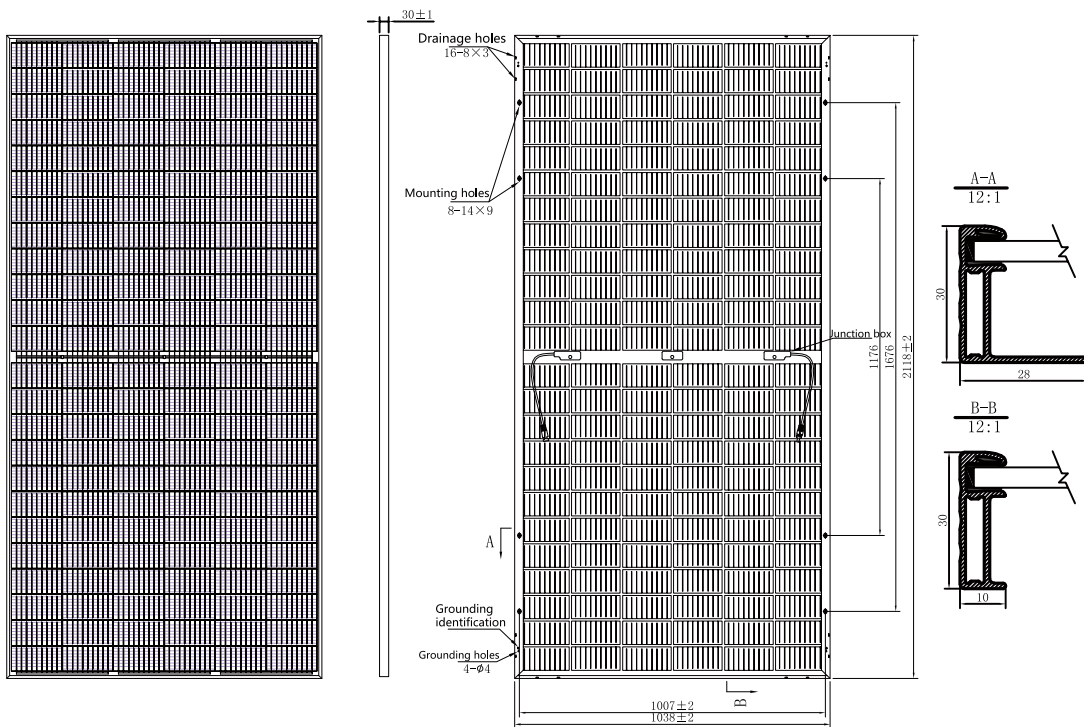
MECHANICAL DATA

Solar cells	Mono 166*83mm
Cells orientation	144(6×24)
Module dimension	2118×1038×30 mm(With Frame)
Weight	28.5 kg
Glass	2.0mm+2.0mm heat strengthened glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

I-V CURVES OF THE PV MODULE



DIMENSION OF THE PV MODULE (mm)



LOCATIONS

KINGDOM OF SAUDI ARABIA

unitech.ksa@ikkgroup.com

Jeddah

Tel : +966 12 627 8222
Fax: +966 12 627 8722

Mak kah/Taif

Tel : +966 12 541 1206
Fax: +966 12 532 1675

Riyadh

Tel : +966 11 292 8200
Fax: +966 11 456 6627

Qassim / Buraidah

Tel : +966 16 382 3946
Fax: +966 16 385 2186

Skakah / Qurayyat

Tel : +966 14 626 3904
Fax: +966 14 626 3905

Tabuk

Tel : +966 14 423 5203
Fax: +966 14 423 5203

Khamis Mushayt

Tel : +966 17 237 5929
Fax: +966 17 237 8783

Gizan

Tel : +966 17 321 6660
Fax: +966 17 321 0665

Mad inah

Tel : +966 14 842 1095
Fax: +966 14 842 1090

Yanbu

Tel : +966 14 390 1499
Fax: +966 14 322 7101

Dammam

Tel : +966 13 859 0097
Fax: +966 13 857 8177

Jubail

Tel : +966 13 361 4390
Fax: +966 13 362 4499

Hofuf

Tel : +966 13 530 1474
Fax: +966 13 530 7144

FACTORIES

SFSP - KSA

sfsp.jeddah@ikkgroup.com

Specialized Factory for Steel Products
3rd Industrial City / Jeddah

Tel: +966 12 637 4482
Fax: +966 12 636 1963

SFSP / UAE

sfsp.uae@ikkgroup.com

SIGMA Factory for Steel Products

DIC (Dubai Industrial City)

Tel : +971 4 818 1919

SFSP / Egypt

sfsp.cairo@ikkgroup.com

Specialized Factory for Steel Products
6th of October City Giza

Tel : +20 2 3820 6477
Fax: +20 2 3820 6036

SFSP / Lebanon

sfsp.lebanon@ikkgroup.com

Specialized Factory for Steel Products
Tanayel, Bekaa

Tel: +961 8 514 290
Fax: +961 8 514 291

BAHRAIN

unitech.bahrain@ikkgroup.com

Manama

Tel : +973 17 874 897
Fax: +973 17 789 470

KUWAIT

unitech.kuwait@ikkgroup.com

Kuwait City

Tel : +965 2 4924 937
Fax: +965 2 4924 938

UNITED ARAB EMIRATES

unitech.uae@ikkgroup.com

Dubai - Al Rashidiyah

Tel : +971 4 2591 773
Fax : +971 4 2591 774

Abu Dhabi - Musaffah

Tel: +971 2 552 3393
Fax: +971 2 552 5499

OMAN

unitech.oman@ikkgroup.com

Muscat

Tel : +968 24 591 006
Fax : +968 24 597 006

JORDAN

unitech.jordan@ikkgroup.com

Amman

Tel : +962 6 556 3030
Fax: +962 6 554 7911

Aqaba

Tel : +962 6 556 3030
Fax: +962 6 554 7911

PAKISTAN

unitech.pakistan@ikkgroup.com

Lahore - Punjab

Tel: +92 42 32301578

ENGINEERING, DESIGN, MARKETING & MULTIMEDIA

Unitech Deutschland GmbH Germany

unitech.germany@ikkgroup.com

Stuttgart

Tel : +49 711 6868 7222
Fax: +49 711 6868 7223

Multi-D s.a.r.l

Lebanon

multi-d@ikkgroup.com

Multi-d Beirut

Tel : +961 1 841 155
Fax: +961 1 841 156

EGYPT

unitech.egypt@ikkgroup.com

Cairo 6th of October City

Tel : +20 2 3820 6477
Fax: +20 2 3820 6036

LEBANON

unitech.lebanon@ikkgroup.com

Beirut

Tel : +961 1 858 277
Fax: +961 1 858 276



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