



GLOBAL SMART ENERGY
SOLUTIONS PROVIDER

COMPANY PROFILE& PRODUCT INTRODUCTION



ODA2024V1.1/EN

CORPORATE PHILOSOPHY



World

s

Solar

d

Development

a

Share



GLOBAL SMART **ENERGY**

SOLUTION PROVIDER

CLIENT-ORIENTATION, **CONTRIBUTION-BASED**
CONTINUOUS INNOVATION, WIN-WIN CO-OPERATION

VALUE

VISION & MISSION

MAKING **GREEN ENERGY**

ACCESSIBLE TO THOUSANDS OF HOMES

DEVELOPMENT HISTORY

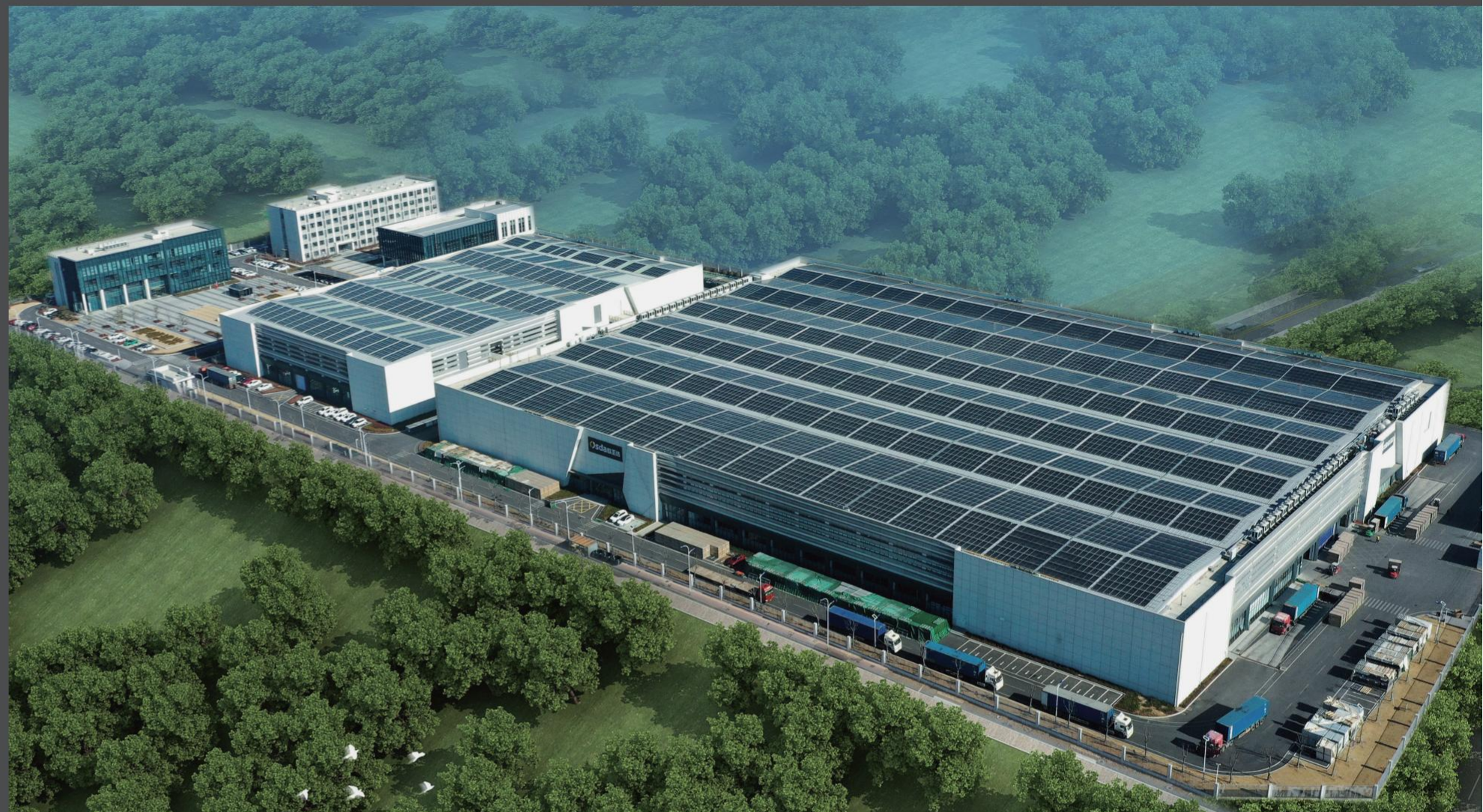


ABOUT OSDA

OSDA SOLAR has been specializing in offering distributed PV solutions since 2009, including PV Module, solar cells, all-in-one solutions for industrial, commercial and residential solar projects, as well as smart energy management and maintenance service.

OSDA SOLAR has four domestic production sites, the current annual capacity of solar panel reaches up to 12GW, and solar cells 12GW, certificates such as ISO, TUV, CE, MCS, IEC, INMETRO, RETIE, SASO, CQC.

Over the years, OSDA has supplied products to more than 100 countries, overseas offices have established in Germany, Netherlands, Poland, India, Brazil, Pakistan, Bangladesh and etc.



CERTIFICATES



ENTERPRISE LAYOUT



15 years +
Module Production



10 +
Overseas Offices



100 +
Client Country



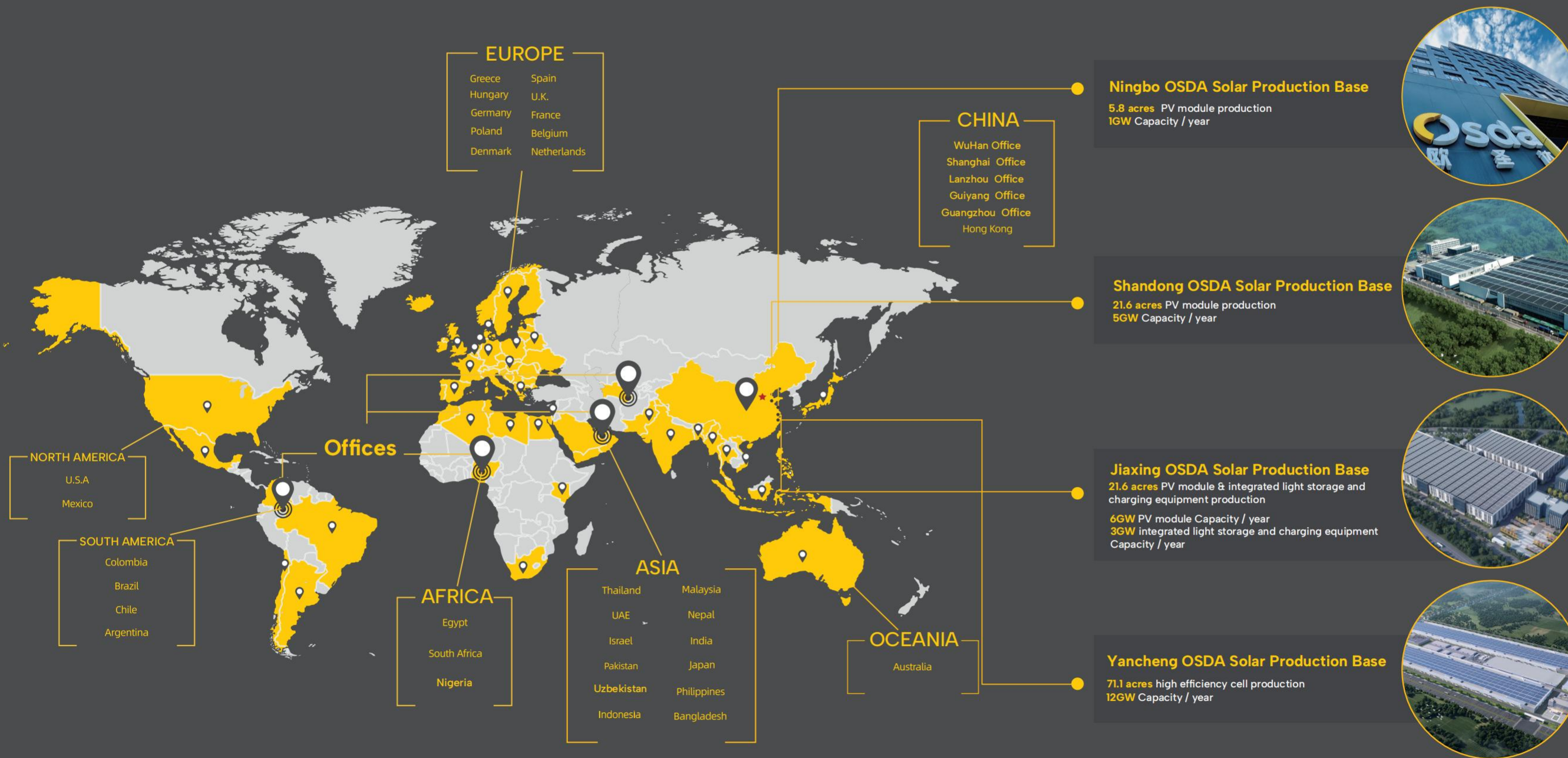
2 times
Annual Growth



100,00 +
Service Clients

FOR PASSED 15 YEARS:

OSDA SOLAR HAS COMPLETED THE STRATEGIC LAYOUT OF THE GLOBAL INDUSTRIAL CHAIN



2009
Establishment

100+
Countries Covered

10+
Oversea Branches

4
Production Bases



OSDA-EN-20240723



GLOBAL SMART ENERGY
SOLUTION PROVIDER

570-590W

N-Type Monofacial / Bifacial

ODA-144MH/D

Optional (unframed)



Top manufacturers to develop N-type technology



Gain increases as the backside is exposed to light, significantly reducing the LCOE.



5400Pa snow pressure, 2400Pa wind pressure



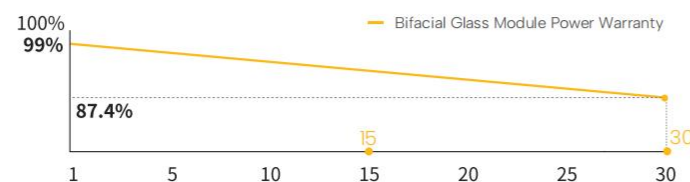
Robust and reliable, full backside welding to improve cell resistance to hidden cracks



Guarantee
Bifacial



Warranty
Bifacial



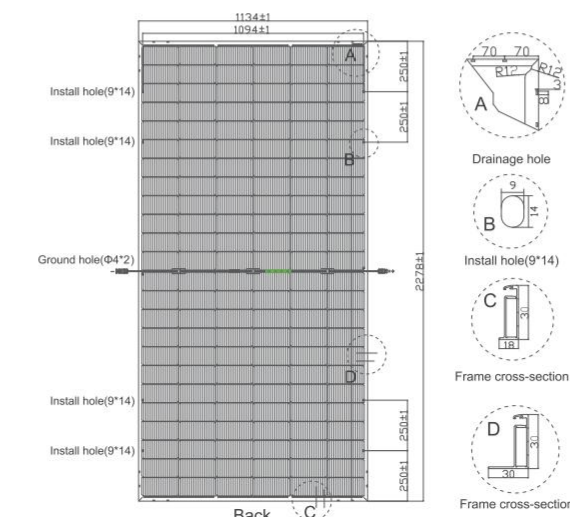
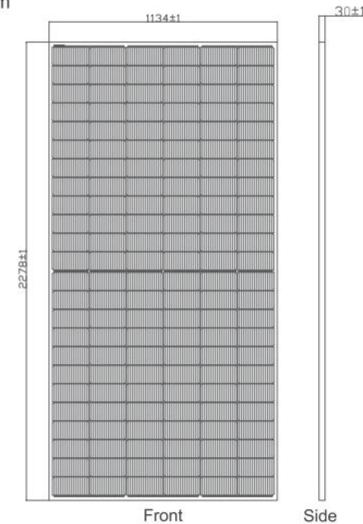
COMPREHENSIVE PRODUCT AND SYSTEM CERTIFICATION



SPECIFICATION (STC)					
MODEL TYPE	ODA570-36V-MH	ODA575-36V-MH	ODA580-36V-MH	ODA585-36V-MH	ODA590-36V-MH
	ODA570-36V-MHD	ODA575-36V-MHD	ODA580-36V-MHD	ODA585-36V-MHD	ODA590-36V-MHD
Peak Power (Pmax)	570.00	575.00	580.00	585.00	590.00
Maximum Power Voltage (Vmp)	42.07	42.22	42.37	42.52	42.67
Maximum Power Current (Imp)	13.55	13.62	13.69	13.76	13.83
Open Circuit Voltage (Voc)	50.74±3%	50.88±3%	51.02±3%	51.16±3%	51.41±3%
Short Circuit Current(Isc)	14.31±3%	14.39±3%	14.47±3%	14.55±3%	14.63±3%
Module Efficiency(%)	22.07	22.26	22.45	22.64	22.83
Power Tolerance	0~+3 W				
Pmax Temperature Coefficients(W/°C)	-0.300%/°C /-0.290 %/°C				
Voc Temperature Coefficients(V/°C)	-0.260%/°C /-0.250 %/°C				
Isc Temperature Coefficients (A/°C)	+0.047 %/°C / +0.041 %/°C				
NOCT Nominal Operating Cell Temperature (°c)	45±2 °C				
Operating and Storage Temperature(°C)	-40~+85 °C				
Standard Test Condition(STC)	1000W/m, AM1.5;25+/-2°C				

ASSEMBLY DRAWING

Unit:mm



MECHANICAL CHARACTERISTICS&PACKING

Cell Type (mm)	182*91 N-Type Mono
No. of Cells	144(12*12)
Dimensions(mm)	2278*1134*30
Weight(Single glass/Double glass)	27.4kg/32kg
Monofacial front glass(mm)	3.2mm high transmission, low Iron, tempered glass
Bifacial glass front glass(mm)	2.0mm AR coating tempered glass
Bifacial glass Back Glass(mm)	2.0mm Glazed Glass
Frame	Anodized Aluminium Alloy(Silver/Black)
Maximum System Voltage(V)	1500V
Maximum Series Fuse Rating(A)	25A/30A(Monofacial/ Bifacial)
Junction box	IP68 3 diodes
Output cables	4mm² cable 90cm(including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa
20FT container	5 Packages/185pcs
40HQ container	20 Packages/740pcs

Specifications included in this datasheet are subject to change without notice.

420-440W

N-Type Black Monofacial / Bifacial

ODA-108MHB/D

Optional (unframed)



Top manufacturers to develop N-type technology



Appearance aesthetics, simplified, new definition of modules aesthetics



5400Pa snow pressure, 2400Pa wind pressure

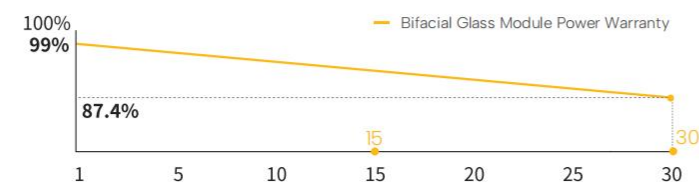


Robust and reliable, full backside welding to improve cell resistance to hidden cracks

15
YEARS

Guarantee
Bifacial

30
YEARS

Warranty
Bifacial


COMPREHENSIVE PRODUCT AND SYSTEM CERTIFICATION

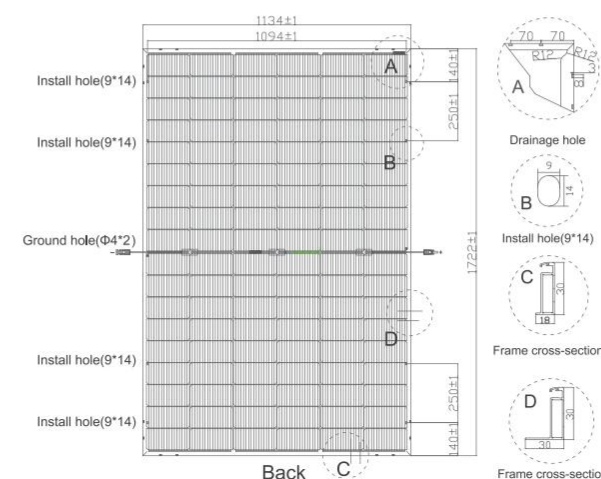
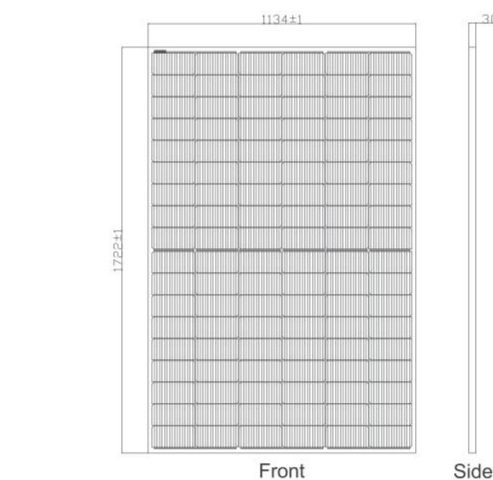


SPECIFICATION (STC)

MODEL TYPE	ODA420-27V-MHB	ODA425-27V-MHB	ODA430-27V-MHB	ODA435-27V-MHB	ODA440-27V-MHB
	ODA420-27V-MHDB	ODA425-27V-MHDB	ODA430-27V-MHDB	ODA435-27V-MHDB	ODA440-27V-MHDB
Peak Power (Pmax)	420.00	425.00	430.00	435.00	440.00
Maximum Power Voltage (Vmp)	31.51	31.70	31.88	32.06	32.24
Maximum Power Current (Imp)	13.33	13.47	13.49	13.57	13.65
Open Circuit Voltage (Voc)	38.11+3%	38.30+3%	38.49+3%	38.68+3%	38.87+3%
Short Circuit Current(Isc)	14.07+3%	14.15+3%	14.23+3%	14.31+3%	14.39+3%
Module Efficiency(%)	21.51	21.76	22.02	22.28	22.54
Power Tolerance	0~+3 W				
Pmax Temperature Coefficients(W/°C)	-0.300%/°C / -0.290 %/°C				
Voc Temperature Coefficients(V/°C)	-0.260%/°C / -0.250 %/°C				
Isc Temperature Coefficients (A/°C)	+0.047 %/°C / +0.041 %/°C				
NOCT Nominal Operating Cell Temperature (°C)	45±2 °C				
Operating and Storage Temperature(°C)	-40~+85 °C				
Standard Test Condition(STC)	1000W/m, AM1.5, 25+/-2°C				

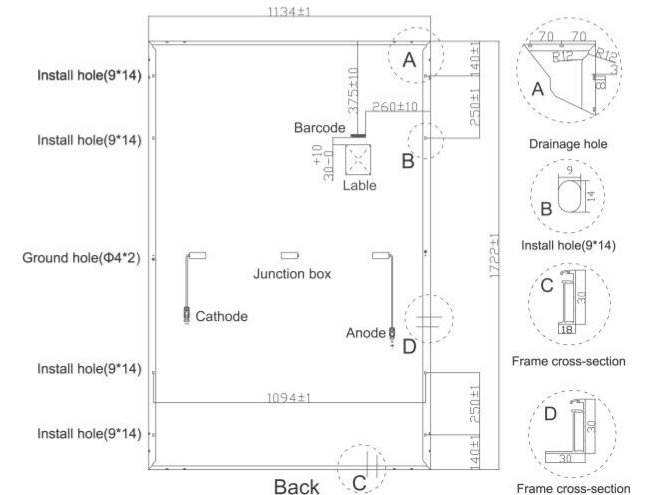
ASSEMBLY DRAWING

Unit:mm



MECHANICAL CHARACTERISTICS&PACKING

Cell Type (mm)	182*91 N-Type Black Mono
No. of Cells	108(12*9)
Dimensions(mm)	1722*1134*30
Weight(Single glass/Double glass)	21.50kg/24.70kg
Monofacial front glass(mm)	3.2mm high transmission, low Iron, tempered glass
Bifacial glass front glass(mm)	2.0mm AR coating tempered glass
Bifacial glass Back Glass(mm)	2.0mm Glazed Glass
Frame	Anodized Aluminium Alloy(Silver/Black)
Maximum System Voltage(V)	1500V
Maximum Series Fuse Rating(A)	25A/30A(Monofacial/ Bifacial)
Junction box	IP68 3 diodes
Output cables	4mm² cable 90cm(including Mc4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa
20FT container	6 Packages/222pcs
40HQ container	26 Packages/962pcs





OSDA-EN-20240723



GLOBAL SMART ENERGY
SOLUTION PROVIDER

600-630W

N-Type Monofacial / Bifacial

ODA-132RMH/D



Top manufacturers to develop N-type technology



Gain increases as the backside is exposed to light significantly reducing the LCOE.



5400Pa snow pressure, 2400Pa wind pressure



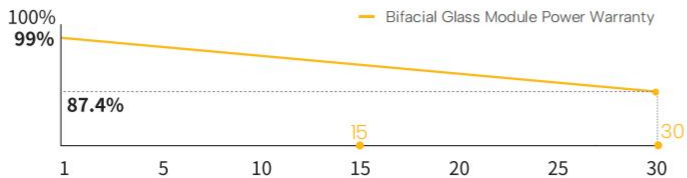
Robust and reliable, full backside welding to improve cell resistance to hidden cracks



Guarantee
Bifacial



Warranty
Bifacial



COMPREHENSIVE PRODUCT AND SYSTEM CERTIFICATION



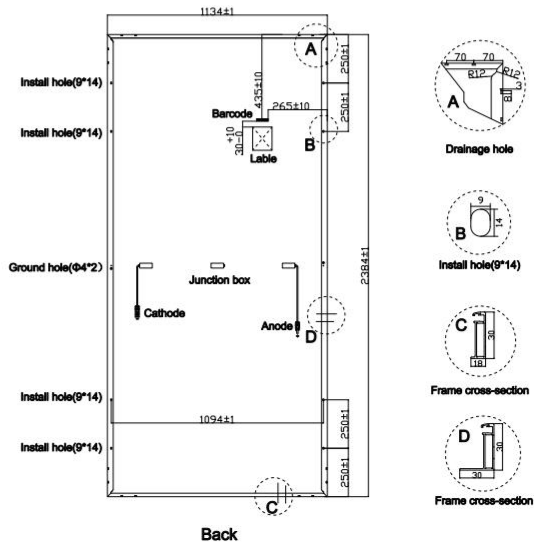
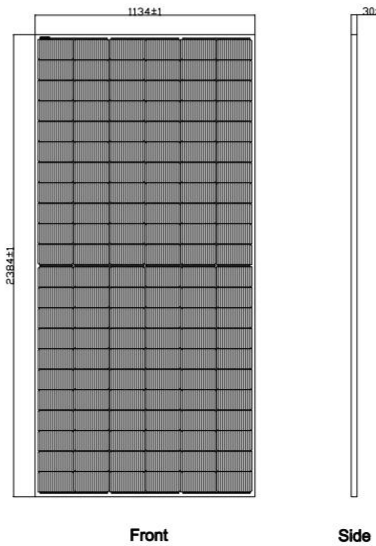
SPECIFICATION (STC)

MODEL TYPE	ODA600-33VR-MH	ODA605-33VR-MH	ODA610-33VR-MH	ODA615-33VR-MH	ODA620-33VR-MH	ODA625-33VR-MH	ODA630-33VR-MH
	ODA600-33VR-MHD	ODA605-33VR-MHD	ODA610-33VR-MHD	ODA615-33VR-MHD	ODA620-33VR-MHD	ODA625-33VR-MHD	ODA630-33VR-MHD
Peak Power (Pmax)	600.00	605.00	610.00	615.00	620.00	625.00	630.00
Maximum Power Voltage (Vmp)	39.44	39.60	39.77	39.96	40.15	40.32	40.50
Maximum Power Current (Imp)	15.21	15.28	15.34	15.39	15.44	15.50	15.56
Open Circuit Voltage (Voc)	47.70±3%	47.90±3%	48.10±3%	48.30±3%	48.50±3%	48.70±3%	48.90±3%
Short Circuit Current(Isc)	15.95±3%	16.00±3%	16.05±3%	16.10±3%	16.15±3%	16.20±3%	16.25±3%
Module Efficiency(%)	22.19	22.38	22.56	22.75	22.93	23.12	23.30
Power Tolerance	0~+3 W						
Pmax Temperature Coefficients(W/°C)	-0.300%/°C /-0.290 %/°C						
Voc Temperature Coefficients(V/°C)	-0.260%/°C /-0.250 %/°C						
Isc Temperature Coefficients (A/°C)	+0.047 %/°C / +0.041 %/°C						
NOCT Nominal Operating Cell Temperature (°c)	45±2 °C						
Operating and Storage Temperature(°C)	-40~+85 °C						
Standard Test Condition(STC)	1000W/m, AM1.5;25+/-2°C						

MECHANICAL CHARACTERISTICS&PACKING

Cell Type(mm)	182*105 N Type Mono
No. of cells	132(12*11)
Dimensions(mm)	2384*1134*30mm
Weight	29.70kg/32.4kg
Front Glass(mm)	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Maximum System Voltage(V)	1500V
Maximum Series Fuse Rating(A)	30A/35A(Monofacial/Bifacial)
Junction box	IP68 3 diodes
Output cables	4mm ² cable 35cm(Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa
20FT container	4 Packages/148pcs
40HQ container	20 Packages/740pcs

ASSEMBLY DRAWING



Specifications included in this datasheet are subject to change without notice.



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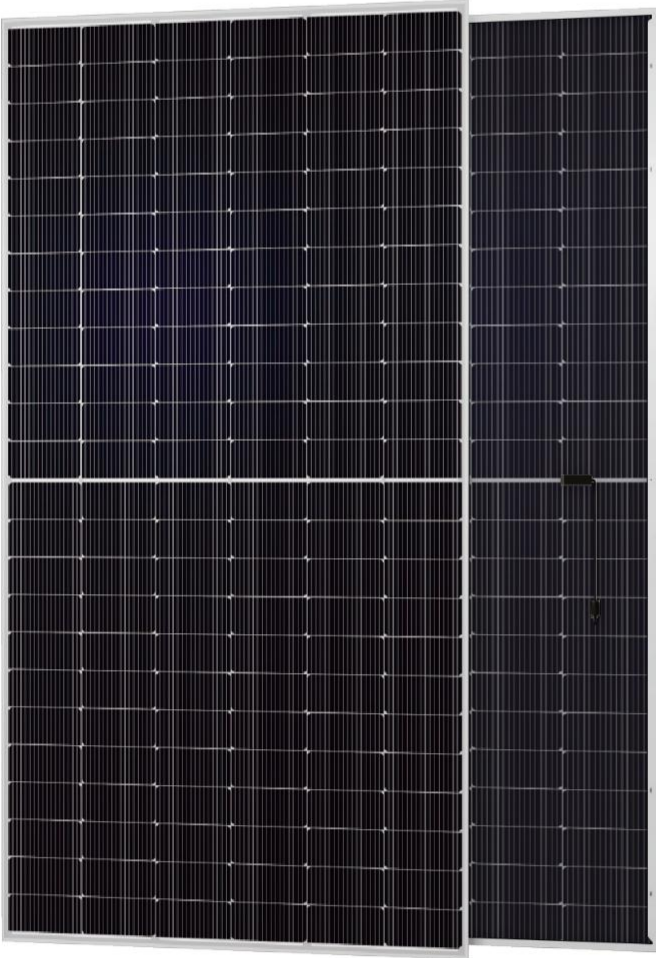


GLOBAL SMART ENERGY
SOLUTION PROVIDER

620-650W

N-Type Monofacial / Bifacial

ODA-144RMH/D



Top manufacturers to develop N-type technology



Gain increases as the backside is exposed to light significantly reducing the LCOE.



5400Pa snow pressure, 2400Pa wind pressure



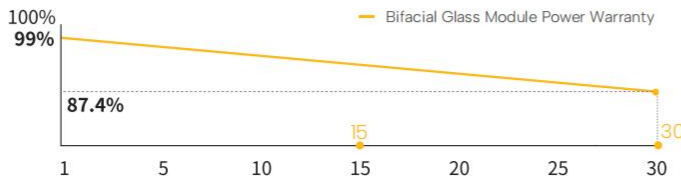
Robust and reliable, full backside welding to improve cell resistance to hidden cracks



Guarantee
Bifacial



Warranty
Bifacial



COMPREHENSIVE PRODUCT AND SYSTEM CERTIFICATION



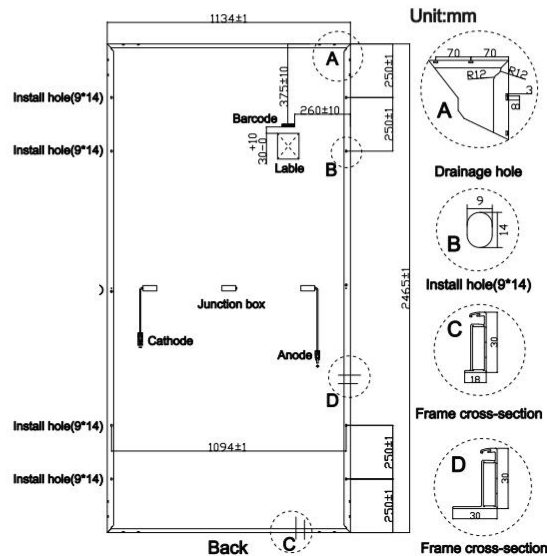
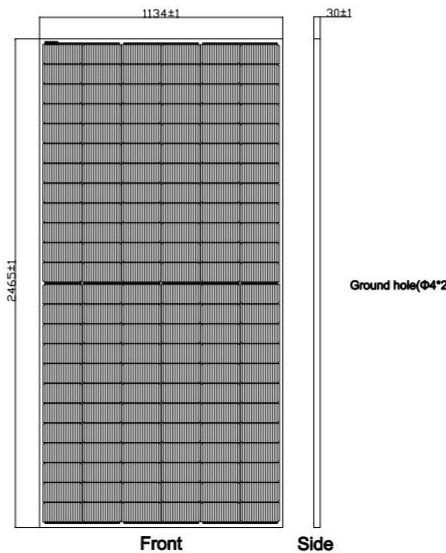
SPECIFICATION (STC)

MODEL TYPE	ODA620-36VR-MH	ODA625-36VR-MH	ODA630-36VR-MH	ODA635-36VR-MH	ODA640-36VR-MH	ODA645-36VR-MH	ODA650-36VR-MH
	ODA620-36VR-MHD	ODA625-36VR-MHD	ODA630-36VR-MHD	ODA635-36VR-MHD	ODA640-36VR-MHD	ODA645-36VR-MHD	ODA650-36VR-MHD
Peak Power (Pmax)	620.00	625.00	630.00	635.00	640.00	645.00	650.00
Maximum Power Voltage (Vmp)	41.92	42.07	42.22	42.37	42.52	42.67	42.82
Maximum Power Current (Imp)	14.80	14.86	14.92	14.98	15.04	15.10	15.18
Open Circuit Voltage (Voc)	50.30±3%	50.48±3%	50.66±3%	50.84±3%	51.02±3%	51.20±3%	51.38±3%
Short Circuit Current(Isc)	15.54±3%	15.60±3%	15.67±3%	15.74±3%	15.81±3%	15.88±3%	15.95±3%
Module Efficiency(%)	22.18	22.36	22.54	22.72	22.90	23.07	23.26
Power Tolerance	0~+3 W						
Pmax Temperature Coefficients(W/°C)	-0.300%/°C /-0.290 %/°C						
Voc Temperature Coefficients(V/°C)	-0.260%/°C /-0.250 %/°C						
Isc Temperature Coefficients (A/°C)	+0.047 %/°C / +0.041 %/°C						
NOCT Nominal Operating Cell Temperature (°C)	45±2 °C						
Operating and Storage Temperature(°C)	-40~+85 °C						
Standard Test Condition(STC)	1000W/m, AM1.5;25+/-2°C						

MECHANICAL CHARACTERISTICS&PACKING

Cell Type(mm)	182*99.5 N Type Mono
No. of cells	144(12*12)
Dimensions(mm)	2465*1134*30mm
Weight	30.00kg
Front Glass(mm)	3.2mm hightransmission,lowiron,tempered glass
Frame	Anodized Aluminium Alloy
Maximum System Voltage(V)	1500V
Maximum Series Fuse Rating(A)	25A/30A(Monofacial/ Bifacial)
Junction box	IP68 3diodes
Output cables	4mm2 cable35cm(Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa
20FT container	4 Packages/148pcs
40HO container	16 Packages/592pcs

ASSEMBLY DRAWING



Specifications included in this datasheet are subject to change without notice.



OSDA-EN-20240723



GLOBAL SMART ENERGY
SOLUTION PROVIDER

680-705W

N-Type Monofacial / Bifacial

ODA-132MH/D



Top manufacturers to develop N-type technology



Gain increases as the backside is exposed to light significantly reducing the LCOE.



5400Pa snow pressure, 2400Pa wind pressure



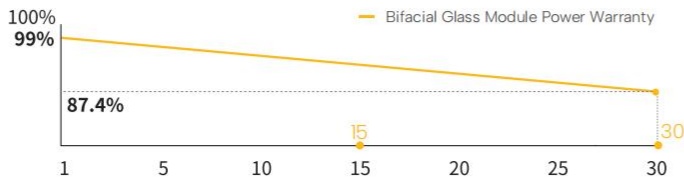
Robust and reliable, full backside welding to improve cell resistance to hidden cracks



Guarantee
Bifacial



Warranty
Bifacial



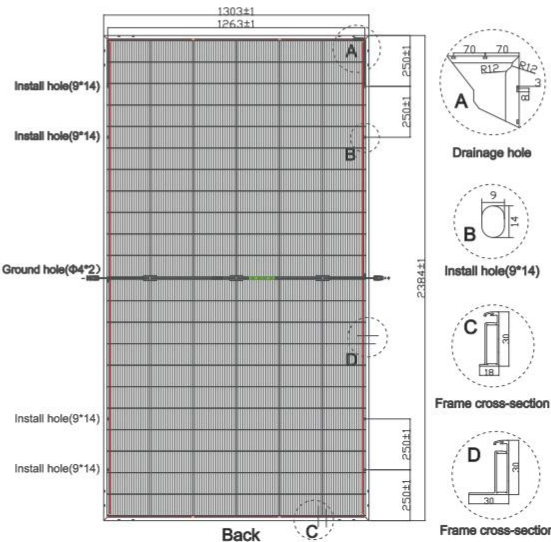
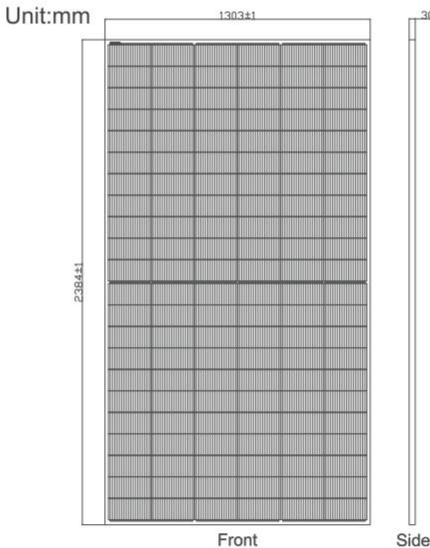
COMPREHENSIVE PRODUCT AND SYSTEM CERTIFICATION



SPECIFICATION (STC)

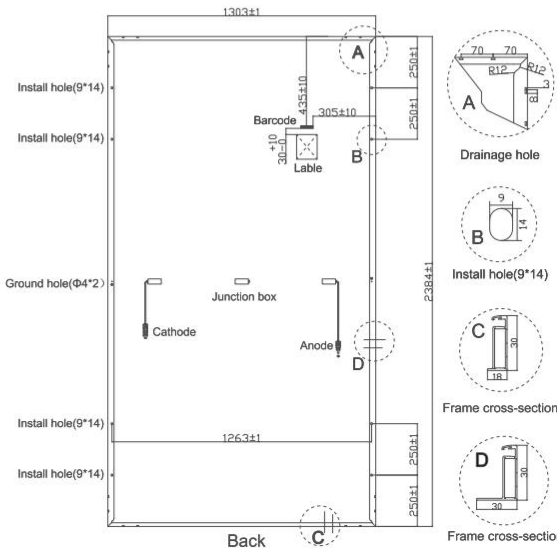
MODEL TYPE	ODA680-33V-MH	ODA685-33V-MH	ODA690-33V-MH	ODA695-33V-MH	ODA700-33V-MH	ODA705-33V-MH
	ODA680-33V-MHD	ODA685-33V-MHD	ODA690-33V-MHD	ODA695-33V-MHD	ODA700-33V-MHD	ODA705-33V-MHD
Peak Power (Pmax)	680.00	685.00	690.00	695.00	700.00	705
Maximum Power Voltage (Vmp)	39.92	40.12	40.32	40.52	40.72	40.92
Maximum Power Current (Imp)	17.04	17.08	17.12	17.16	17.20	17.23
Open Circuit Voltage (Voc)	47.90±3%	48.14±3%	48.38±3%	48.62±3%	48.86±3%	49.10±3%
Short Circuit Current(Isc)	17.80±3%	17.84±3%	17.88±3%	17.93±3%	17.97±3%	18.00±3%
Module Efficiency(%)	21.90	22.06	22.22	22.38	22.54	22.70
Power Tolerance	0~+3 W					
Pmax Temperature Coefficients(W/°C)	-0.300%/°C /-0.290 %/°C					
Voc Temperature Coefficients(V/°C)	-0.260%/°C /-0.250 %/°C					
Isc Temperature Coefficients (A/°C)	+0.046 %/°C / +0.041 %/°C					
NOCT Nominal Operating Cell Temperature (°c)	45±2 °C					
Operating and Storage Temperature(°C)	-40~+85 °C					
Standard Test Condition(STC)	1000W/m, AM1.5;25+/-2°C					

ASSEMBLY DRAWING



MECHANICAL CHARACTERISTICS&PACKING

Cell Type (mm)	210*105 N-Type Mono
No. of Cells	132(12*11)
Dimensions(mm)	2384*1303*30
Weight(Single glass/Double glass)	33.90kg/38kg
Monofacial front glass(mm)	3.2mm hightransmission,lowiron,tempered glass
Bifacial glass front glass(mm)	2.0mm AR coatingtempered glass
Bifacial glass Back Glass(mm)	2.0mm Glazed Glass
Frame	Anodized Aluminium Alloy
Maximum System Voltage(V)	1500V
Maximum Series Fuse Rating(A)	30A/35A(Monofacial/Bifacial)
Junction box	IP68 3diodes
Output cables	4mm² cable 35cm(including Mc4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa
20FT container	18 Packages/666pcs



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RESIDENTIAL



Hebei China-500KW



Romania-400KW



Linyi, China-200KW



Munich, Germany-300KW



COMMERCIAL AND INDUSTRIAL



Ningbo China-6MW



BRAZIL-1MW



Yiwu China-5MW



Linyi, China-4MW



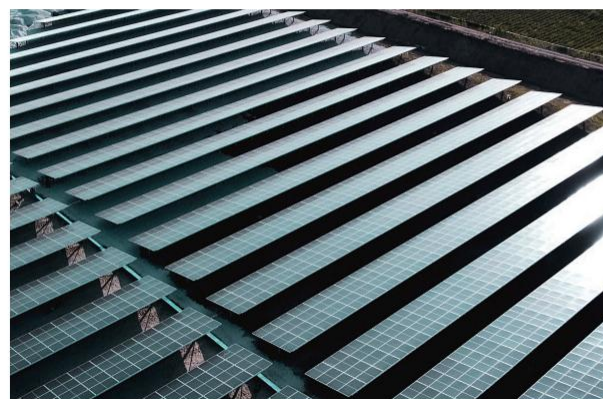
Honghe China-20MW



Yanshan China-10MW



Honghe China-20MW



Honghe China-8MW



Morocco-3.2MW



Hubei China-30MW



Huaian China-50MW



Yangzhou China-15MW



Hubei China-30MW



Wenzhou China-50MW



GLOBAL SMART ENERGY
SOLUTIONS PROVIDER

THANK YOU!



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