



Top Manufacturer of Topcon Solar
Module and Cells



GLOBAL SMART ENERGY
SOLUTIONS PROVIDER

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COMPANY INTRODUCTION

CERTIFICATES



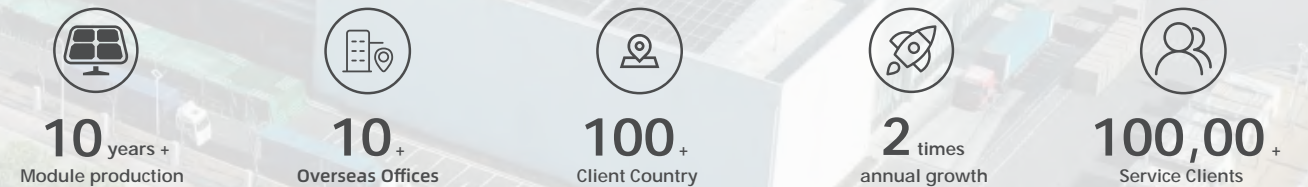
ABOUT OSDA

OSDA SOLAR has been specializing in offering distributed photovoltaic solutions since 2009, including PV Module, solar cells, all-in-one solutions for industrial, commercial and residential solar roof top 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 10Gw, and solar cells 12Gw, certificates such as ISO, TUV, CE, UL, MCS, IEC, INMETRO, RETIE, SASO, COC and JET.

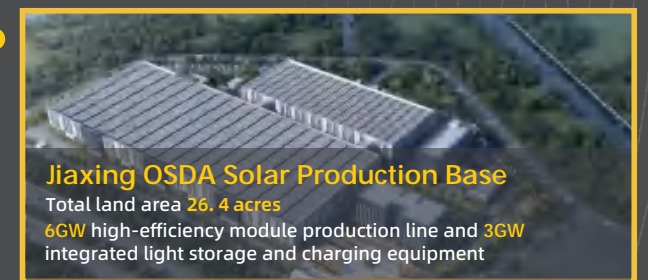
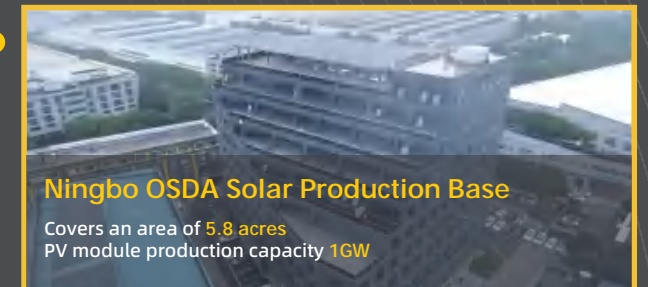
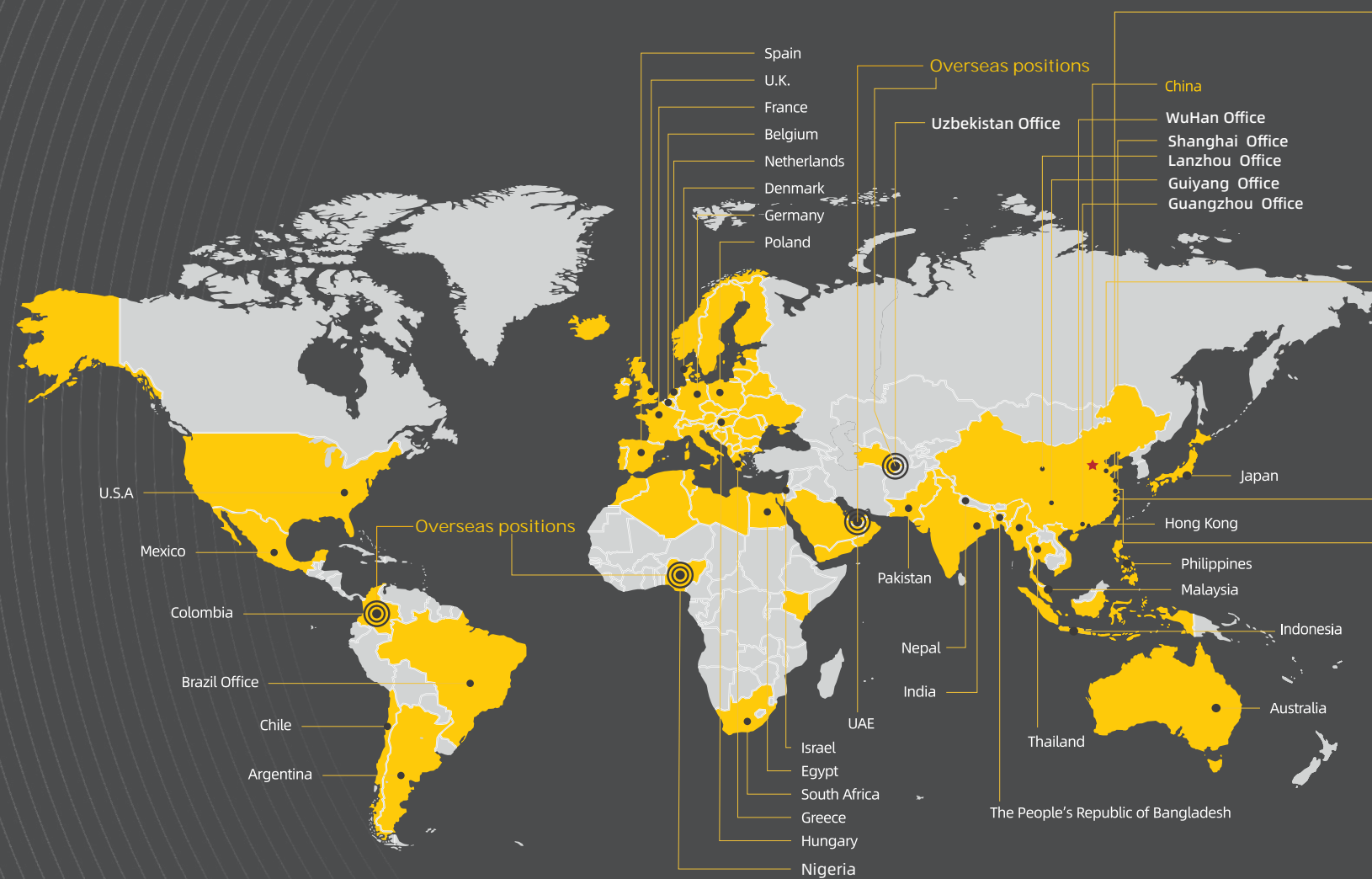
Over the years, OSDA has supplied products to more than 100 Countries, Overseas offices have established in Germany, Netherlands, Poland, India, Brazil, Pakistan, Bangladesh and etc.

OSDA mission is Let Thousands of Households Share Green Energy. OSDA vision is to be Global Smart Energy Solution Provider. OSDA Values is Customer orientation, contribution oriented, continuous innovation, and win-win cooperation.



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

ODA-108MHB



Lower power loss



Lower temperature coefficient



Better performance in lower light environment



Lower shipping cost on per watt

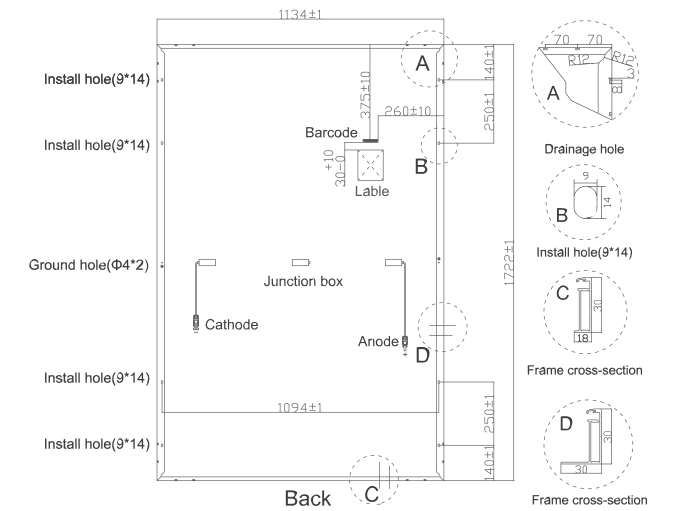
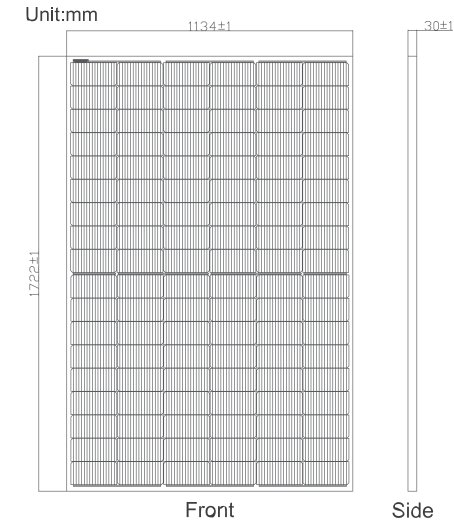


Lower leveled cost on energy



15
YEARS
Guarantee

30
YEARS
Warranty



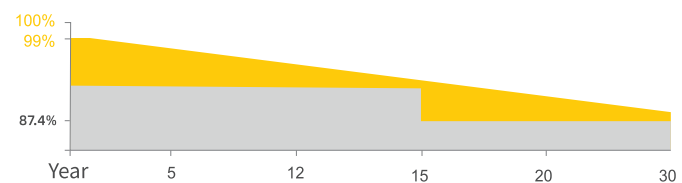
SPECIFICATION

Model type	ODA420-27V-MHB	ODA425-27V-MHB	ODA430-27V-MHB	ODA435-27V-MHB	ODA440-27V-MHB
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	13.41	13.49	13.57	13.65
Open Circuit Voltage (Voc)	38.11±3%	38.3±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				
Voc Temperature Coefficients (V/°C)	-0.260%/°C				
Isc Temperature Coefficients (A/°C)	+0.047%/°C				
NOCT Nominal Operating Cell Temperature (°C)	45±2 °C				
Operating and Storage Temperature (°C)	-40~+85 °C				
Standard Test Condition (STC)	1000W/m ² , AM1.5;25+/-2°C				

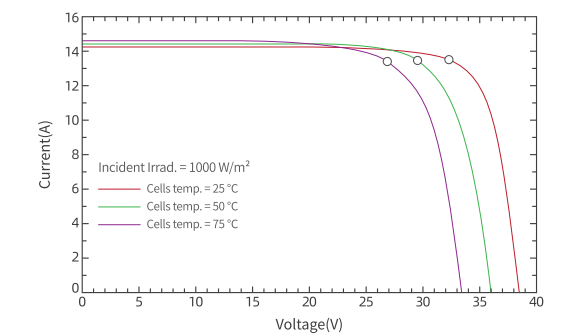
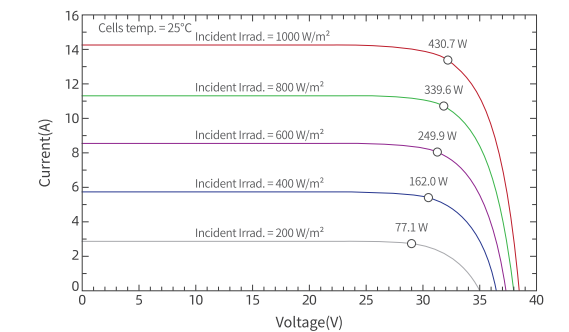
MECHANICAL CHARACTERISTICS&PACKING

Cell Type (mm)	182*91 N-Type Black Mono
No. of Cells	108 (12*9)
Dimensions(mm)	1722*1134*30
Weight	21.50kg
Front Glass(mm)	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25 A
Junction box	IP68 3diodes
Output cables	4mm ² cable 90cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa
20FT container	6 Packages/222pcs
40HQ container	26 Packages/962pcs

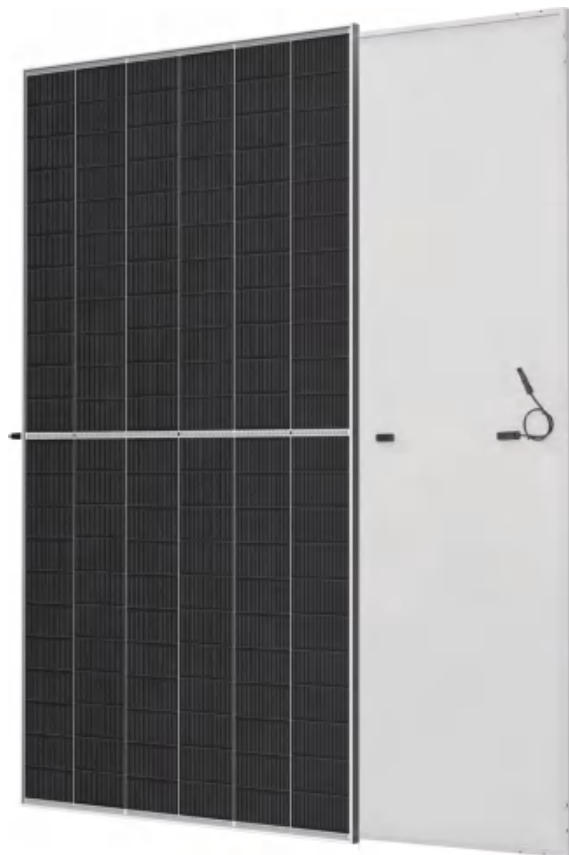
WARRANTY



IV CURVE



ODA-132MH



Lower power loss



Lower temperature coefficient



Higher double-sided revenue



Better performance in lower light environment



Lower shipping cost on per watt

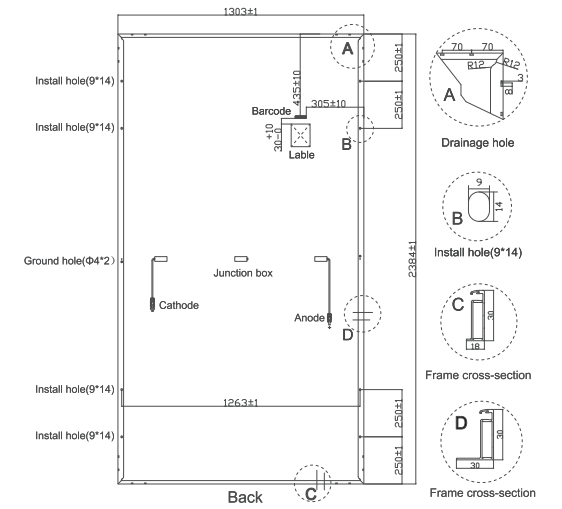
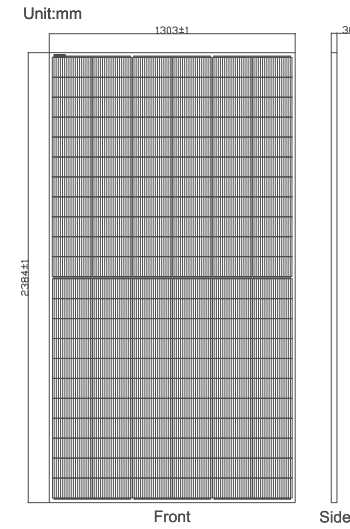


Lower leveled cost on energy



15
YEARS
Guarantee

30
YEARS
Warranty



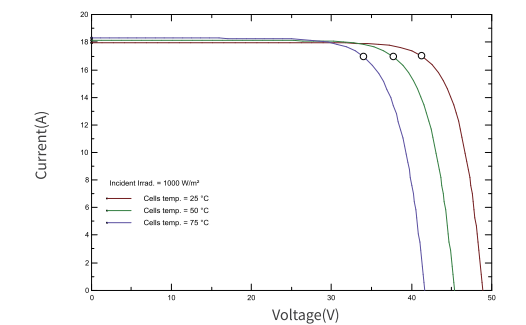
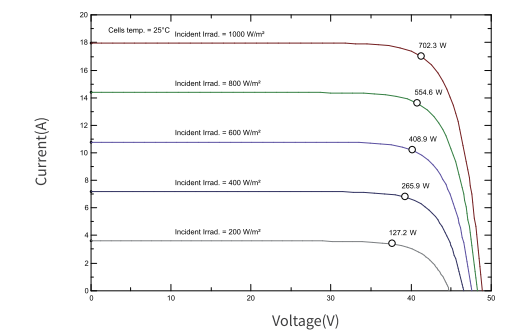
SPECIFICATION (STC)

Model type	ODA670-33V-MH	ODA675-33V-MH	ODA680-33V-MH	ODA685-33V-MH	ODA690-33V-MH	ODA695-33V-MH	ODA700-33V-MH
Peak Power (Pmax)	670.00	675.00	680.00	685.00	690.00	695.00	700.00
Maximum Power Voltage (Vmp)	39.52	39.72	39.92	40.12	40.32	40.52	40.72
Maximum Power Current (Imp)	16.96	17.00	17.04	17.08	17.12	17.16	17.20
Open Circuit Voltage (Voc)	47.42±3%	47.66±3%	47.90±3%	48.14±3%	48.38±3%	48.62±3%	48.86±3%
Short Circuit Current (Isc)	17.72±3%	17.76±3%	17.80±3%	17.84±3%	17.88±3%	17.93±3%	17.97±3%
Module Efficiency (%)	21.57	21.73	21.90	22.06	22.22	22.38	22.54
Power Tolerance	0~+3 W						
Pmax Temperature Coefficients (W/°C)	-0.300 %/°C						
Voc Temperature Coefficients (V/°C)	-0.260 %/°C						
Isc Temperature Coefficients (A/°C)	+0.047 %/°C						
NOCT Nominal Operating Cell Temperature (°C)	45±2 °C						
Operating and Storage Temperature (°C)	-40~+85 °C						
Standard Test Condition (STC)	1000W/m ² , AM1.5;25+/-2°C						

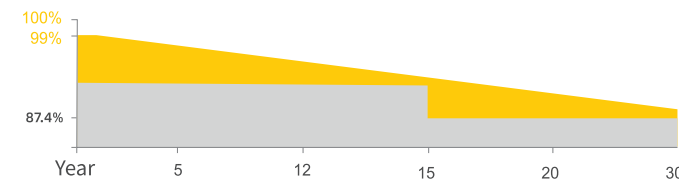
MECHANICAL CHARACTERISTICS&PACKING

Cell Type (mm)	210*105 N-Type Mono
No. of Cells	132(12*11)
Dimensions(mm)	2384*1303*30
Weight	33.90kg
Front Glass(mm)	3.2mm hightransmission,lowiron,tempered glass
Frame	Anodized Aluminium Alloy
Maximum System Voltage (V)	1500V
Maximum Series Fuse Rating (A)	30A
Junction box	IP68 3diodes
Output cables	4mm ² cable35cm(Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa
40HQ container	18 Packages/666pcs

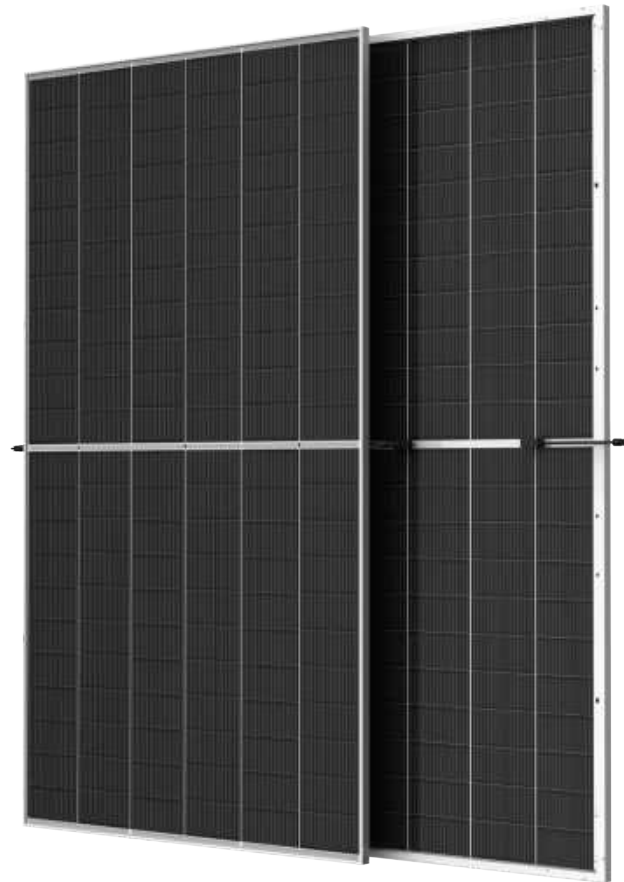
IV CURVE



WARRANTY



ODA-132MHD



Lower power loss



Lower temperature coefficient



Higher double-sided revenue



Better performance in lower light environment



Lower shipping cost on per watt



Lower leveled cost on energy



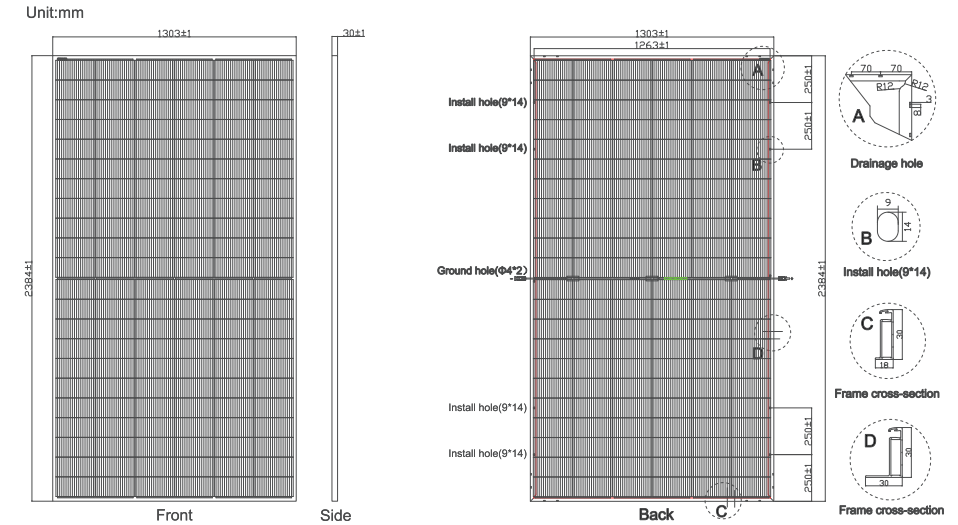
15
YEARS

Guarantee

30
YEARS

Warranty

Osda



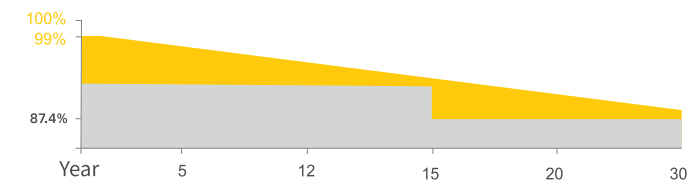
SPECIFICATION (STC)

Model type	ODA670-33V-MHD	ODA675-33V-MHD	ODA680-33V-MHD	ODA685-33V-MHD	ODA690-33V-MHD	ODA695-33V-MHD	ODA700-33V-MHD	ODA705-33V-MHD
Peak Power (Pmax)	670.00	675.00	680.00	685.00	690.00	695.00	700	705
Maximum Power Voltage (Vmp)	39.52	39.72	39.92	40.12	40.32	40.52	40.72	40.92
Maximum Power Current (Imp)	16.96	17.00	17.04	17.08	17.12	17.16	17.20	17.23
Open Circuit Voltage (Voc)	47.42±3%	47.66±3%	47.90±3%	48.14±3%	48.38±3%	48.62±3%	48.86±3%	49.10±3%
Short Circuit Current (Isc)	17.72±3%	17.76±3%	17.80±3%	17.84±3%	17.88±3%	17.93±3%	17.97±3%	18.00±3%
Module Efficiency (%)	21.57	21.73	21.90	22.06	22.22	22.38	22.54	22.70
Power Tolerance	0~+3 W							
Pmax Temperature Coefficients (W/°C)	-0.290 %/°C							
Voc Temperature Coefficients (V/°C)	-0.250 %/°C							
Isc Temperature Coefficients (A/°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/m², AM1.5;25+/-2°C							

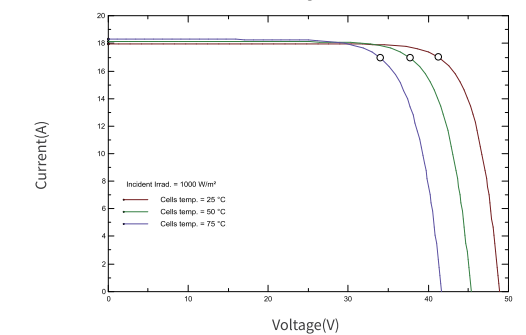
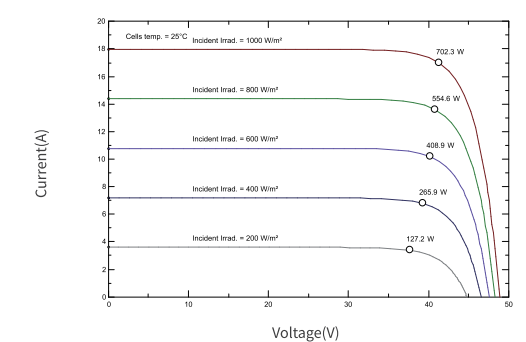
MECHANICAL CHARACTERISTICS&PACKING

Cell Type (mm)	210*105 N-Type Mono
No. of Cells	132(12*11)
Dimensions(mm)	2384*1303*30
Weight	38kg
Front Glass(mm)	2.0mm AR coating tempered glass
Backsheet	2.0mm Glazed Glass
Frame	Anodized Aluminium Alloy
Maximum System Voltage (V)	1500V
Maximum Series Fuse Rating (A)	35A
Junction box	IP68 3diodes
Output cables	4mm² cable 35cm(Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa
40HQ container	18 Packages/666pcs

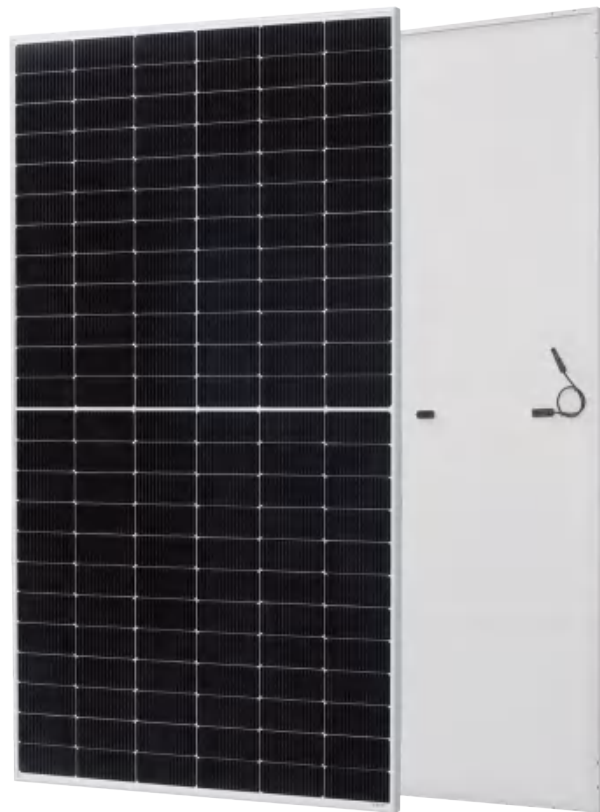
WARRANTY



IV CURVE



ODA-144MH



Lower power loss



Lower temperature coefficient



Better performance in lower light environment



Lower shipping cost on per watt

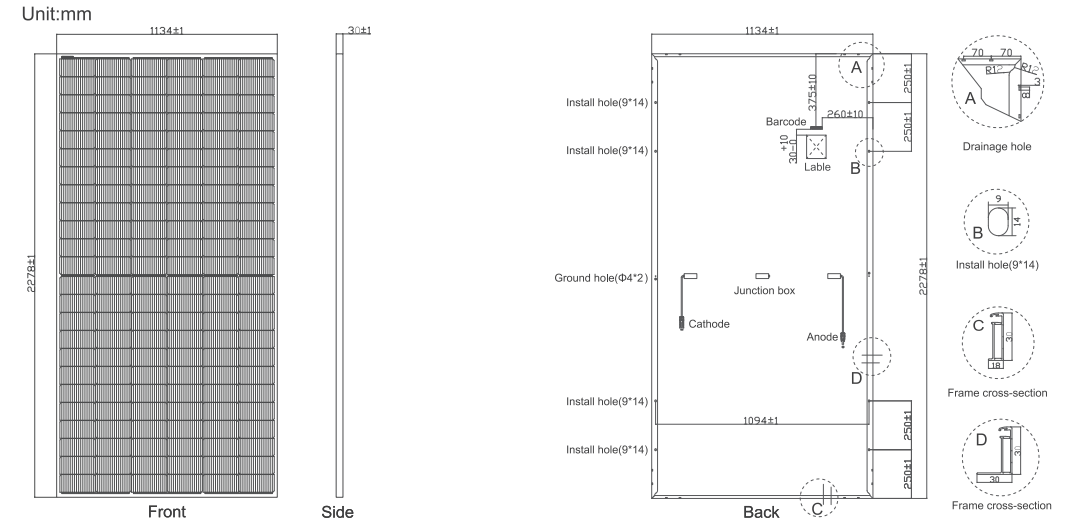


Lower leveled cost on energy



15 YEARS
Guarantee

30 YEARS
Warranty



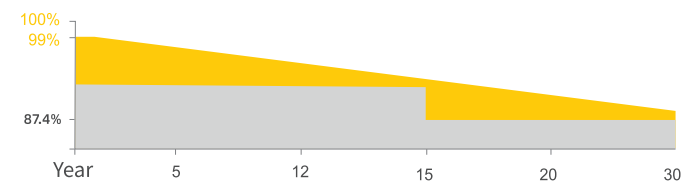
SPECIFICATION

Model type	ODA560-36V-MH	ODA565-36V-MH	ODA570-36V-MH	ODA575-36V-MH	ODA580-36V-MH	ODA585-36V-MH	ODA590-36V-MH
Peak Power (Pmax)	560.00	565.00	570.00	575.00	580.00	585.00	590.00
Maximum Power Voltage (Vmp)	41.77	41.92	42.07	42.22	42.37	42.52	42.67
Maximum Power Current (Imp)	13.41	13.48	13.55	13.62	13.69	13.76	13.83
Open Circuit Voltage (Voc)	50.47±3%	50.60±3%	50.74±3%	50.88±3%	51.02±3%	51.16±3%	51.30±3%
Short Circuit Current (Isc)	14.15±3%	14.23±3%	14.31±3%	14.39±3%	14.47±3%	14.55±3%	14.63±3%
Module Efficiency (%)	21.68	21.87	22.07	22.26	22.45	22.64	22.83
Power Tolerance				0~+3 W			
Pmax Temperature Coefficients (W/°C)				-0.300 %/°C			
Voc Temperature Coefficients (V/°C)				-0.260%/°C			
Isc Temperature Coefficients (A/°C)				+0.047%/°C			
NOCT Nominal Operating Cell Temperature (°C)				45±2 °C			
Operating and Storage Temperature (°C)				-40~+85 °C			
Standard Test Condition (STC)				1000W/m ² , AM1.5;25+/-2°C			

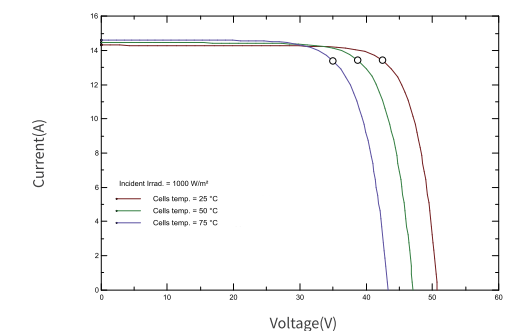
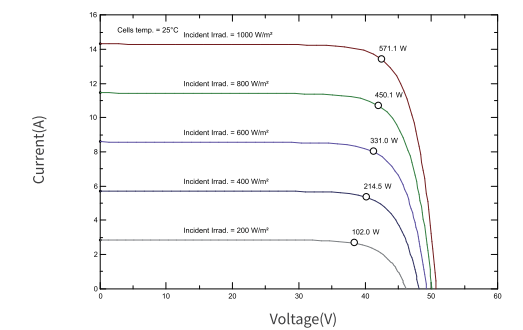
MECHANICAL CHARACTERISTICS&PACKING

Cell Type (mm)	182*91 N-Type Mono
No. of Cells	144 (12*12)
Dimensions(mm)	2278*1134*30
Weight	27.4kg
Front Glass(mm)	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy (Silver/Black)
Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25 A
Junction box	IP68 3diodes
Output cables	4mm ² cable 90cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa
20FT container	5 Packages/185pcs
40HQ container	20 Packages/740pcs

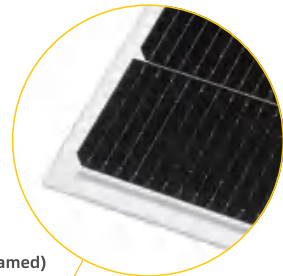
WARRANTY



IV CURVE



ODA-144MHD



Optional (unframed)



Lower power loss



Lower temperature coefficient



Higher double-sided revenue



Better performance in lower light environment



Lower shipping cost on per watt



Lower leveled cost on energy

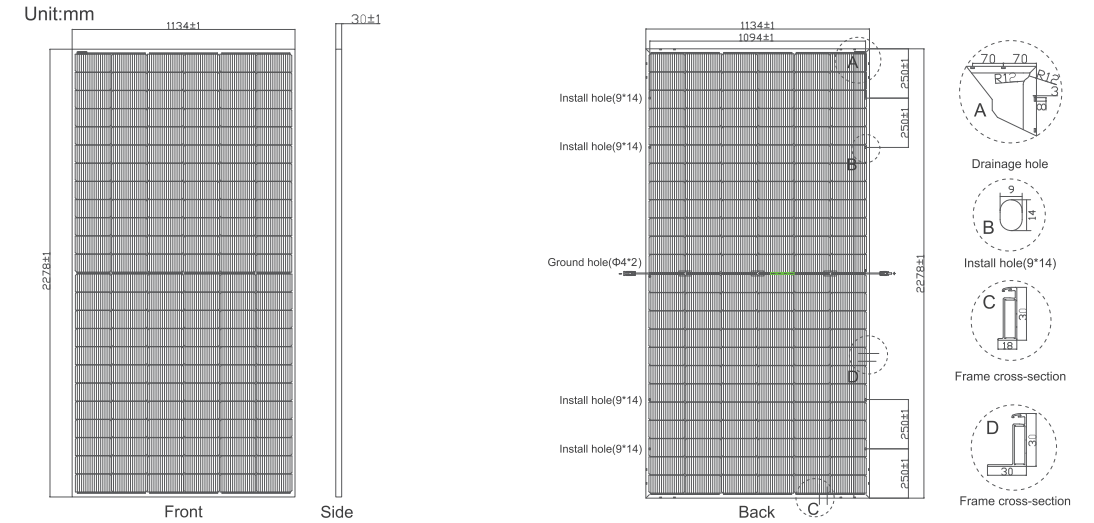


15
YEARS

Guarantee

30
YEARS

Warranty



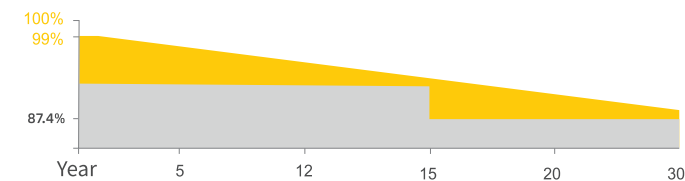
SPECIFICATION (STC)

Model type	ODA565-36V-MHD	ODA570-36V-MHD	ODA575-36V-MHD	ODA580-36V-MHD	ODA585-36V-MHD	ODA590-36V-MHD
Peak Power (Pmax)	565.00	570.00	575.00	580.00	585.00	590.00
Maximum Power Voltage (Vmp)	41.92	42.07	42.22	42.37	42.52	42.67
Maximum Power Current (Imp)	13.48	13.55	13.62	13.69	13.76	13.83
Open Circuit Voltage (Voc)	50.60±3%	50.74±3%	50.88±3%	51.02±3%	51.16±3%	51.41±3%
Short Circuit Current (Isc)	14.23±3%	14.31±3%	14.39±3%	14.47±3%	14.55±3%	14.63±3%
Module Efficiency (%)	21.87	22.07	22.26	22.45	22.64	22.83
Power Tolerance	0~+3 W					
Pmax Temperature Coefficients (W/°C)	-0.290 %/°C					
Voc Temperature Coefficients (V/°C)	-0.250 %/°C					
Isc Temperature Coefficients (A/°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 ² , AM1.5;25+/-2°C					

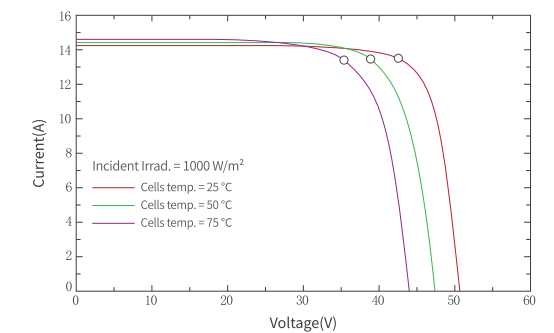
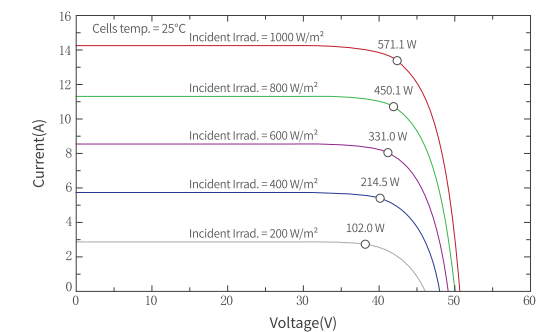
MECHANICAL CHARACTERISTICS&PACKING

Cell Type (mm)	182*91 N-Type Bifacial Mono
No. of Cells	144 (12*12)
Dimensions(mm)	2278*1134*30
Weight	32kg
Front Glass(mm)	2.0mm AR coating tempered glass
Back Glass(mm)	2.0mm Glazed Glass
Frame	Anodized Aluminium Alloy (Silver/Black)
Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	30 A
Junction box	IP68 3diodes
Output cables	4mm ² cable 90cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa
20FT container	5 Packages/185pcs
40HQ container	20 Packages/740pcs

WARRANTY



IV CURVE



ODA-144MH



Lower power loss



Lower temperature coefficient



Better performance in lower light environment



Lower shipping cost on per watt



Lower leveled cost on energy



15 YEARS

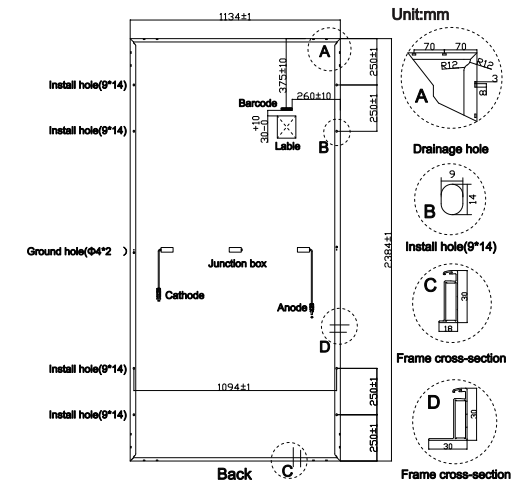
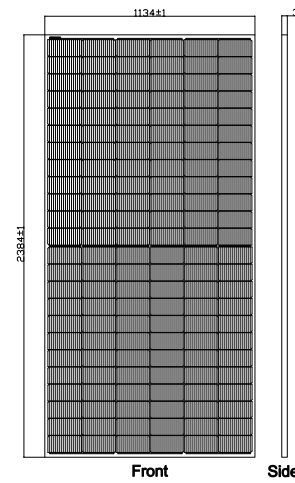
Guarantee

30 YEARS

Warranty



Unit:mm



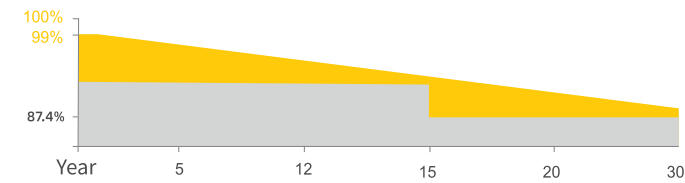
SPECIFICATION

Model type	ODA600-36V-MH	ODA605-36V-MH	ODA610-36V-MH	ODA615-36V-MH	ODA620-36V-MH	ODA625-36V-MH	ODA630-36V-MH
Peak Power (Pmax)	600.00	605.00	610.00	615.00	620.00	625.00	630.00
Maximum Power Voltage (Vmp)	41.92	42.07	42.22	42.37	42.52	42.67	42.82
Maximum Power Current (Imp)	14.32	14.38	14.45	14.52	14.58	14.65	14.72
Open Circuit Voltage (Voc)	50.30±3%	50.48±3%	50.67±3%	50.84±3%	51.02±3%	51.20±3%	51.38±3%
Short Circuit Current (Isc)	15.03±3%	15.10±3%	15.17±3%	15.24±3%	15.31±3%	15.38±3%	15.45±3%
Module Efficiency (%)	22.20	22.38	22.56	22.75	22.64	22.93	23.30
Power Tolerance				0~+3 W			
Pmax Temperature Coefficients (W/°C)				-0.300 %/°C			
Voc Temperature Coefficients (V/°C)				-0.260%/°C			
Isc Temperature Coefficients (A/°C)				+0.047%/°C			
NOCT Nominal Operating Cell Temperature (°C)				45±2 °C			
Operating and Storage Temperature (°C)				-40~+85 °C			
Standard Test Condition (STC)				1000W/m ² , AM1.5;25+/-2°C			

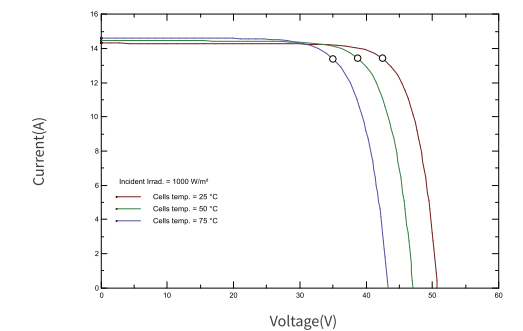
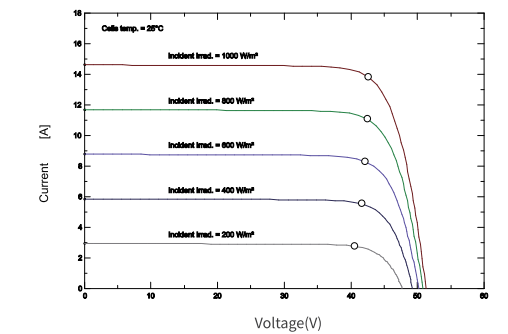
MECHANICAL CHARACTERISTICS&PACKING

Cell Type (mm)	182*95.8 N Type Mono
No. of Cells	144(12*12)
Dimensions(mm)	2384*1134*30mm
Weight	29.70kg
Front Glass(mm)	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy (Silver/Black)
Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25 A
Junction box	IP68 3diodes
Output cables	4mm ² cable 90cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa
20FT container	4 Packages/148pcs
40HQ container	20 Packages/740pcs

WARRANTY



IV CURVE



ODA-108MHB



Lower power loss



Lower temperature coefficient



Higher double-sided revenue



Better performance in lower light environment



Lower shipping cost on per watt



Lower leveled cost on energy



12
YEARS

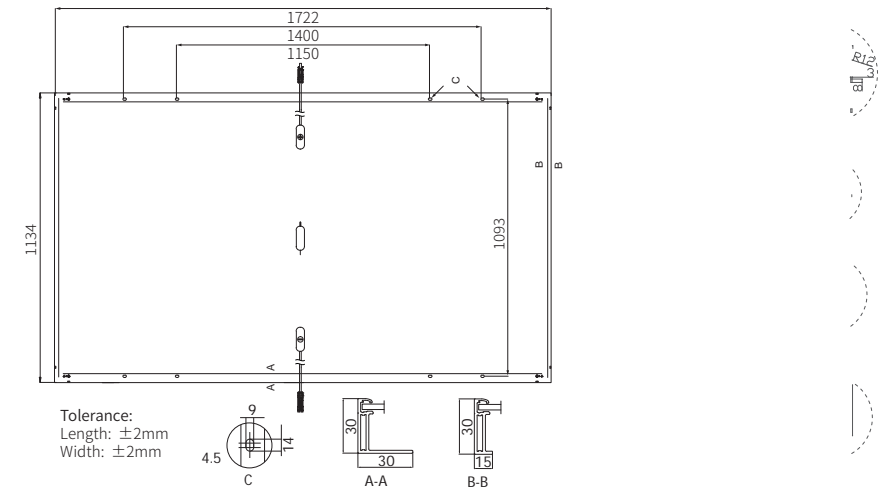
Guarantee

25
YEARS

Warranty

Osda

Unit:mm



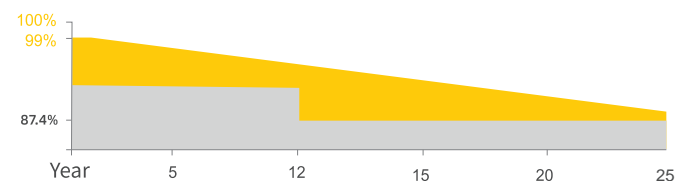
SPECIFICATION (STC)

Model type	ODA415-27BC-MHB	ODA420-27BC-MHB	ODA425-27BC-MHB	ODA430-27BC-MHB	ODA435-27BC-MHB
Peak Power (Pmax)	415.00	420.00	425.00	430.00	435.00
Maximum Power Voltage (Vmp)	38.83	39.03	39.23	39.43	39.63
Maximum Power Current (Imp)	13.78	13.85	13.93	14.00	14.08
Open Circuit Voltage (Voc)	32.56±3%	32.76±3%	32.96±3%	33.16±3%	33.36±3%
Short Circuit Current (Isc)	12.75±3%	12.83±3%	12.90±3%	12.97±3%	13.05±3%
Module Efficiency (%)	21.25	21.50	21.76	22.02	22.28
Power Tolerance	0~+3 W				
Pmax Temperature Coefficients (W/°C)	-0.290%/°C				
Voc Temperature Coefficients (V/°C)	-0.230%/°C				
Isc Temperature Coefficients (A/°C)	+0.050%/°C				
NOCT Nominal Operating Cell Temperature (°C)	45±2 °C				
Operating and Storage Temperature (°C)	-40~+85 °C				
Standard Test Condition (STC)	1000W/m ² , AM1.5;25+/-2°C				

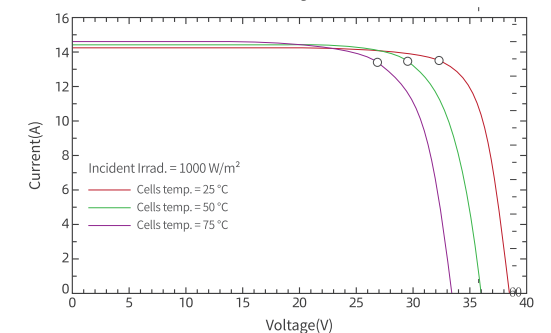
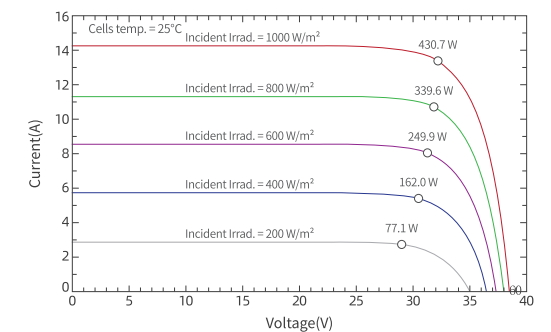
MECHANICAL CHARACTERISTICS&PACKING

Cell Type (mm)	182*91 N-Type HPBC Black Mono
No. of Cells	108(12*9)
Dimensions(mm)	1722*1134*30
Weight	20.80kg
Front Glass(mm)	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy(Silver/Black)
Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	30 A
Junction box	IP68 3diodes
Output cables	4mm ² cable 90cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa
20FT container	6 Packages/222 pcs
40HQ container	26 Packages/962 pcs

WARRANTY



IV CURVE



Mono Half-Cell PV Module (182 TOPCon)

Model	Product type	Power range	Cell type(mm)	No. Of cells	Maximum eff	Dimension(mm)	Frame
ODA-108MH	Single glass	420-440w	182*91 TOPCon	12*9	22.54%	1722*1134*30	(silver/black)
ODA-120MH	Single glass	460-490w	182*91 TOPCon	12*10	22.47%	1903*1134*30	(silver/black)
ODA-132MH	Single glass	500-540w	182*91 TOPCon	12*11	22.53%	2094*1134*30	(silver/black)
ODA-144MH	Single glass	550-590w	182*91 TOPCon	12*12	22.45%	2278*1134*30	(silver/black)
ODA-156MH	Single glass	600-630w	182*91 TOPCon	12*13	22.54%	2465*1134*30	(silver/black)

Mono Half-Cell PV Module (210 TOPCon)

Model	Product type	Power range	Cell type(mm)	No. Of cells	Maximum eff	Dimension(mm)	Frame
ODA-120MH	Single glass	410-425w	210*70 TOPCon	12*10	22.11%	1754*1096*30	(silver/black)
ODA-150MH	Single glass	510-530w	210*70 TOPCon	15*10	22.23%	2176*1096*30	(silver/black)
ODA-100MH	Single glass	490-530w	210*105 TOPCon	10*10	22.23%	2176*1096*30	(silver/black)
ODA-110MH	Single glass	530-580w	210*105 TOPCon	10*11	22.20%	2384*1096*30	(silver/black)
ODA-120MH	Single glass	585-635w	210*105 TOPCon	12*10	22.44%	2172*1303*30	(silver/black)
ODA-132MH	Single glass	645-700w	210*105 TOPCon	12*11	22.54%	2384*1303*30	(silver/black)

Double-glass mono half-cell PV module (182 TOPCon)

Model	Product type	Power range	Cell type(mm)	No. Of cells	Maximum eff	Dimension(mm)	Frame
ODA-108MHD	Dual glass	395-440w	182*91 TOPCon	12*9	22.54%	1722*1134*30	(silver/black/frameless)
ODA-120MHD	Dual glass	440-490w	182*91 TOPCon	12*10	22.47%	1903*1134*30	(silver/black/frameless)
ODA-132MHD	Dual glass	480-540w	182*91 TOPCon	12*11	22.53%	2094*1134*30	(silver/black/frameless)
ODA-144MHD	Dual glass	525-590w	182*91 TOPCon	12*12	22.45%	2278*1134*30	(silver/black/frameless)
ODA-156MHD	Dual glass	570-630w	182*91 TOPCon	12*13	22.54%	2465*1134*30	(silver/black/frameless)

Double-glass mono half-cell PV module (210 TOPCon)

Model	Product type	Power range	Cell type(mm)	No. Of cells	Maximum eff	Dimension(mm)	Frame
ODA-120MHD	Dual glass	410-425w	210*70 TOPCon	12*10	22.11%	1754*1096*30	(silver/black/frameless)
ODA-150MHD	Dual glass	510-535w	210*70 TOPCon	15*10	22.44%	2176*1096*30	(silver/black/frameless)
ODA-100MHD	Dual glass	490-535w	210*105 TOPCon	10*10	22.44%	2176*1096*30	(silver/black/frameless)
ODA-110MHD	Dual glass	540-585w	210*105 TOPCon	10*11	22.39%	2384*1096*30	(silver/black/frameless)
ODA-120MHD	Dual glass	585-640w	210*105 TOPCon	12*10	22.62%	2172*1303*30	(silver/black/frameless)
ODA-132MHD	Dual glass	645-705w	210*105 TOPCon	12*11	22.70%	2384*1303*30	(silver/black/frameless)

Mono Half-Cell PV Module with Transparent Backsheet (182 TOPCon)

Model	Product type	Power range	Cell type(mm)	No. Of cells	Maximum eff	Dimension(mm)	Frame
ODA-108MHT	Transparent Backboard	395-440w	182*91 TOPCon	12*9	22.54%	1722*1134*30	(silver/black)
ODA-120MHT	Transparent Backboard	440-490w	182*91 TOPCon	12*10	22.47%	1903*1134*30	(silver/black)
ODA-132MHT	Transparent Backboard	480-540w	182*91 TOPCon	12*11	22.53%	2094*1134*30	(silver/black)
ODA-144MHT	Transparent Backboard	525-590w	182*91 TOPCon	12*12	22.45%	2278*1134*30	(silver/black)
ODA-156MHT	Transparent Backboard	570-630w	182*91 TOPCon	12*13	22.54%	2465*1134*30	(silver/black)

Mono Half-Cell PV Module with Transparent Backsheet (210 TOPCon)

Model	Product type	Power range	Cell type(mm)	No. Of cells	Maximum eff	Dimension(mm)	Frame
ODA-120MHT	Transparent Backboard	410-425w	210*70 TOPCon	12*10	22.11%	1722*1134*30	(silver/black)
ODA-150MHT	Transparent Backboard	510-535w	210*70 TOPCon	15*10	22.44%	1903*1134*30	(silver/black)
ODA-100MHT	Transparent Backboard	490-535w	210*105 TOPCon	10*10	22.44%	2094*1134*30	(silver/black)
ODA-110MHT	Transparent Backboard	540-585w	210*105 TOPCon	10*11	22.39%	2278*1134*30	(silver/black)
ODA-120MHT	Transparent Backboard	585-640w	210*105 TOPCon	12*10	22.62%	2465*1134*30	(silver/black)
ODA-132MHT	Transparent Backboard	645-705w	210*105 TOPCon	12*11	22.70%	2465*1134*30	(silver/black)

All black mono half-cell PV module (182 TOPCon)

Model	Product type	Power range	Cell type(mm)	No. Of cells	Maximum eff	Dimension(mm)	Frame
ODA-108MHB	Single glass	410-440w	182*91 TOPCon	12*9	22.54%	1722*1134*30	(black)
ODA-120MHB	Single glass	460-490w	182*91 TOPCon	12*10	22.47%	1903*1134*30	(black)
ODA-132MHB	Single glass	500-540w	182*91 TOPCon	12*11	22.53%	2094*1134*30	(black)
ODA-144MHB	Single glass	550-590w	182*91 TOPCon	12*12	22.45%	2278*1134*30	(black)
ODA-156MHB	Single glass	590-630w	182*91 TOPCon	12*13	22.54%	2465*1134*30	(black)

All black mono half-cell PV module (210 TOPCon)

Model	Product type	Power range	Cell type(mm)	No. Of cells	Maximum eff	Dimension(mm)	Frame
ODA-120MHB	Single glass	410-425w	210*70 TOPCon	12*10	22.11%	1754*1096*30	(black)
ODA-150MHB	Single glass	510-530w	210*70 TOPCon	15*10	22.23%	2176*1096*30	(black)
ODA-100MHB	Single glass	490-530w	210*105 TOPCon	10*10	22.23%	2176*1096*30	(black)
ODA-110MHB	Single glass	530-580w	210*105 TOPCon	10*11	22.20%	2384*1096*30	(black)
ODA-120MHB	Single glass	585-635w	210*105 TOPCon	12*10	22.44%	2172*1303*30	(black)
ODA-132MHB	Single glass	645-700w	210*105 TOPCon	12*11	22.54%	2384*1303*30	(black)

All-black double-glass mono half-cell PV module (182 TOPCon)

Model	Product type	Power range	Cell type(mm)	No. Of cells	Maximum eff	Dimension(mm)	Frame
ODA-108MHBD	Dual glass	395-440w	182*91 TOPCon	12*9	22.54%	1722*1134*30	(black/frameless)
ODA-120MHBD	Dual glass	440-490w	182*91 TOPCon	12*10	22.47%	1903*1134*30	(black/frameless)
ODA-132MHBD	Dual glass	480-540w	182*91 TOPCon	12*11	22.53%	2094*1134*30	(black/frameless)
ODA-144MHBD	Dual glass	525-590w	182*91 TOPCon	12*12	22.45%	2278*1134*30	(black/frameless)
ODA-156MHBD	Dual glass	570-630w	182*91 TOPCon	12*13	22.54%	2465*1134*30	(black/frameless)

All-black double-glass mono half-cell PV module (210 TOPCon)

Model	Product type	Power range	Cell type(mm)	No. Of cells	Maximum eff	Dimension(mm)	Frame
ODA-120MHBD	Dual glass	410-425w	210*70 TOPCon	12*10	22.11%	1754*1096*30	(black/frameless)
ODA-150MHBD	Dual glass	510-535w	210*70 TOPCon	15*10	22.44%	2176*1096*30	(black/frameless)
ODA-100MHBD	Dual glass	490-535w	210*105 TOPCon	10*10	22.44%	2176*1096*30	(black/frameless)
ODA-110MHBD	Dual glass	540-585w	210*105 TOPCon	10*11	22.39%	2384*1096*30	(black/frameless)
ODA-120MHBD	Dual glass	585-640w	210*105 TOPCon	12*10	22.62%	2172*1303*30	(black/frameless)
ODA-132MHBD	Dual glass	645-705w	210*105 TOPCon	12*11	22.70%	2384*1303*30	(black/frameless)

All Black Mono Half-Cell PV Module with Transparent Backsheet (182 TOPCon)

Model	Product type	Power range	Cell type(mm)	No. Of cells	Maximum eff	Dimension(mm)	Frame
ODA-108MHBT	Transparent Backboard	395-440w	182*91 TOPCon	12*9	22.54%	1722*1134*30	(black)
ODA-120MHBT	Transparent Backboard	440-490w	182*91 TOPCon	12*10	22.47%	1903*1134*30	(black)
ODA-132MHBT	Transparent Backboard	480-540w	182*91 TOPCon	12*11	22.53%	2094*1134*30	(black)
ODA-144MHBT	Transparent Backboard	525-590w	182*91 TOPCon	12*12	22.45%	2278*1134*30	(black)
ODA-156MHBT	Transparent Backboard	570-630w	182*91 TOPCon	12*13	22.54%	2465*1134*30	(black)

All Black Mono Half-Cell PV Module with Transparent Backsheet (210 TOPCon)

Model	Product type	Power range	Cell type(mm)	No. Of cells	Maximum eff	Dimension(mm)	Frame
ODA-120MHBT	Transparent Backboard	410-425w	210*70 TOPCon	12*10	22.11%	1722*1134*30	(black)
ODA-150MHBT	Transparent Backboard	510-535w	210*70 TOPCon	15*10	22.44%	1903*1134*30	(black)
ODA-100MHBT	Transparent Backboard	490-535w	210*105 TOPCon	10*10	22.44%	2094*1134*30	(black)
ODA-110MHBT	Transparent Backboard	540-585w	210*105 TOPCon	10*11	22.39%	2278*1134*30	(black)
ODA-120MHBT	Transparent Backboard	585-640w	210*105 TOPCon	12*10	22.62%	2465*1134*30	(black)
ODA-132MHBT	Transparent Backboard	645-705w	210*105 TOPCon	12*11	22.70%	2465*1134*30	(black)

RESIDENTIAL PV ROOFING



Hebei Shijiazhuang-500KW



Romania—400KW



Linyi, Shandong—200KW



Munich, Germany—300KW

COMMERCIAL AND INDUSTRIAL DISTRIBUTED CASES



Ecatipé Mexico-100MW



BRAZIL-1MW



Arizona, USA-5MW



Ningbo, Zhejiang—4MW

LARGE-SCALE TERRESTRIAL POWER PLANTS



OFFSHORE PV POWER PLANTS

