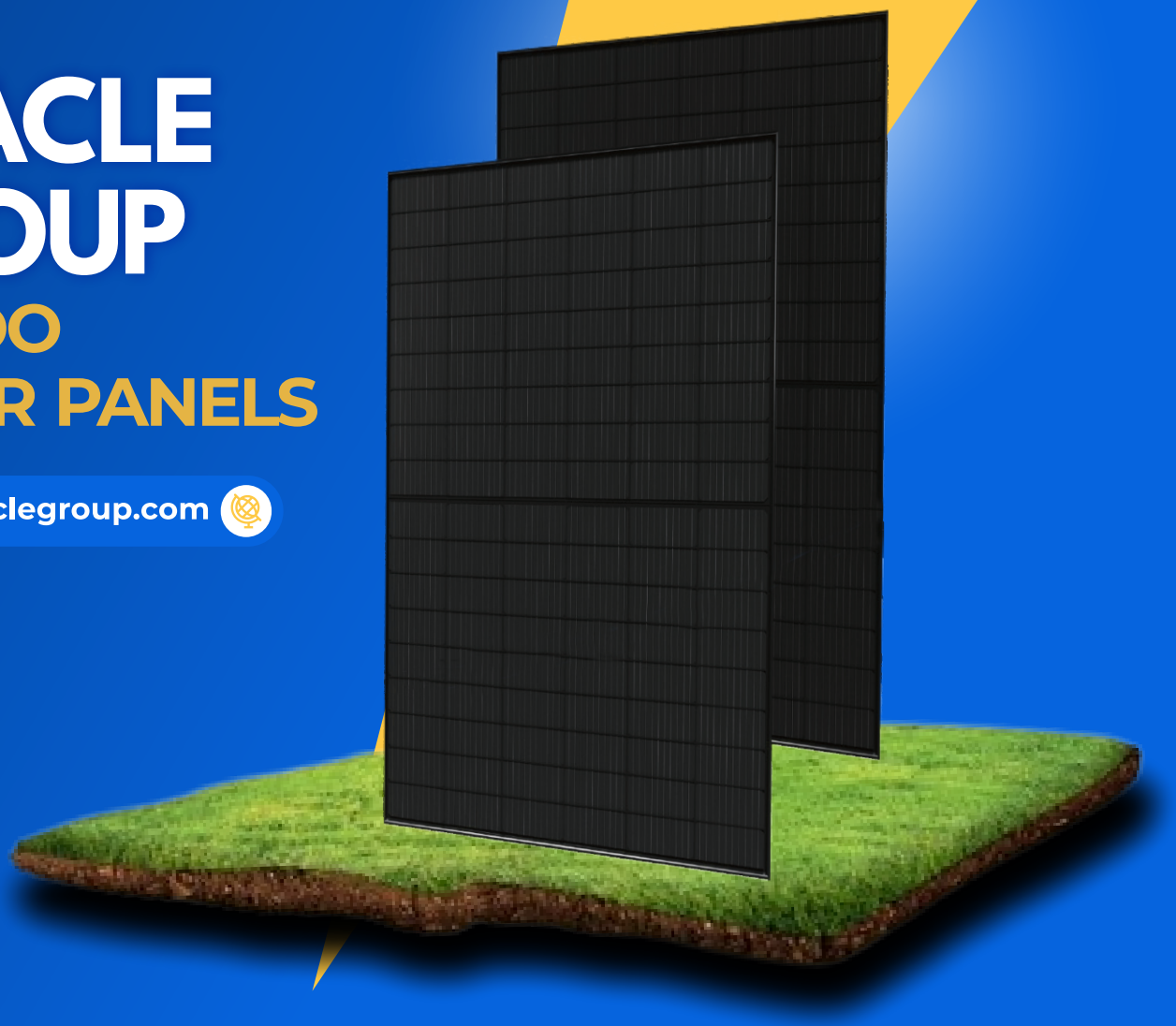
UBACLE®
GROUP
RC No. 1774215

UBACLE GROUP

CANDO SOLAR PANELS

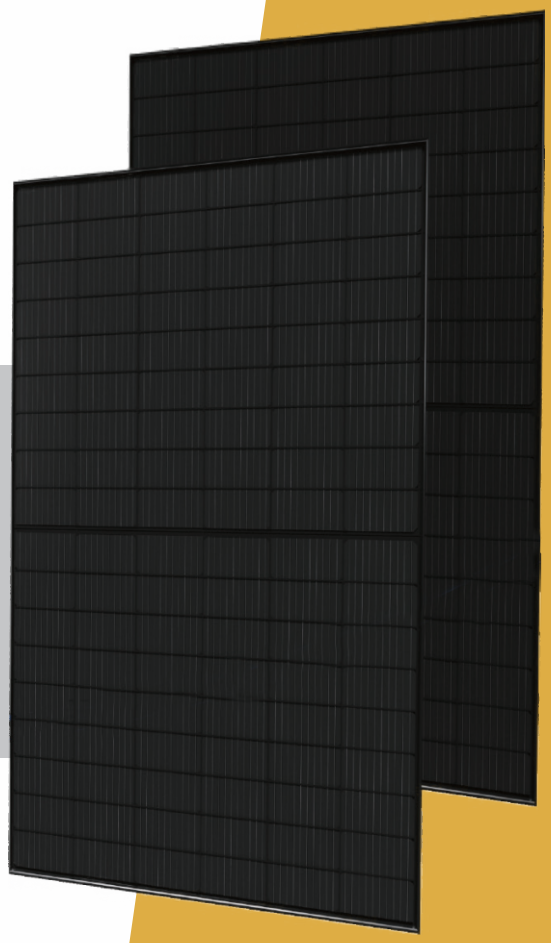
www.ubaclegroup.com



UBACLE GROUP
RC No. 1774215

Big Eco Series

182HJT Solar Module



PRODUCT:

CDS-N1054D-TB

POWER RANGE:

420-440W

440W	22.5%	SMBB	HJT
Max Power Output	Max Panel Efficiency	Super Multi-busbar Technology	182 Wafer

Excellent energy efficiency

- No PID&LID;
- Market leading weak light effect and temperature coefficient (-0.24%/°C);
- 182mm large size and SMBB technology provide higher efficiency (22.5%)

Multi-busbar technology

- Extremely high light utilization;
- Greater power collection capability;
- Effectively improve power output and reliability

High double-sided rate 90%

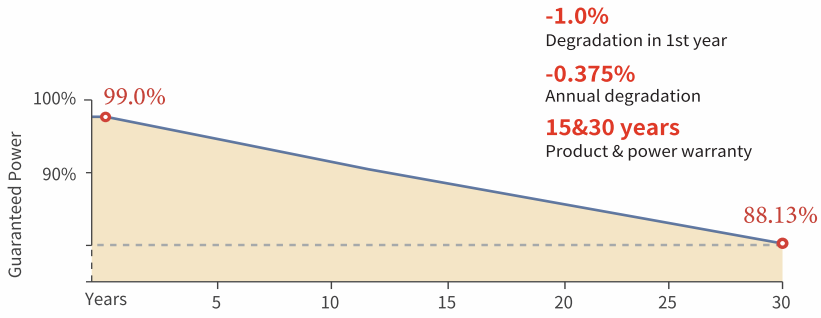
- Additional power generation revenue>5%

Printing technology

- Exclusive patent protection, available for pattern customization

Highest fire rating

- Class A



Certificates & Warranty

- IEC61215 2016&IEC61730 2016
- 15 years Product Workmanship Warranty
- 30 years Power Warranty

Big Eco Series 182HJT Solar Module

CDS-N1054D-TB 420-440W

Electrical data(STC)

Max. Power (W)	420	425	430	435	440
Max. Power Voltage Vmp(V)	34.49	34.76	35.03	35.30	35.57
Max. Power Current Imp(A)	12.18	12.23	12.28	12.33	12.37
Open Circuit Voltage Voc(V)	40.56	40.84	41.12	41.40	41.68
Short Circuit Current Isc(A)	12.97	13.02	13.07	13.12	13.16
Module Efficiency （%）	21.4	21.7	21.9	22.2	22.5

*STC (Standard Test Condition): Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5
*Measurement Tolerance (±3.0%)

Electrical data(NOCT)

Max. Power (W)	321	325	329	333	337
Max. Power Voltage Vmp(V)	33.00	33.27	33.54	33.81	34.11
Max. Power Current Imp(A)	9.73	9.77	9.81	9.85	9.88
Open Circuit Voltage Voc(V)	38.95	39.22	39.49	39.76	40.03
Short Circuit Current Isc(A)	10.46	10.50	10.54	10.58	10.62

*NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Temperature Ratings

Power Tolerance(W)	0～+5
Temperature Coefficients of γPmp(%/°C)	-0.24
Temperature Coefficients of βVoc(%/°C)	-0.22
Temperature Coefficients of αIsc(%/°C)	+0.047
Max. Over-Current （A）	25
Bifacial Factor(%)	⩾85

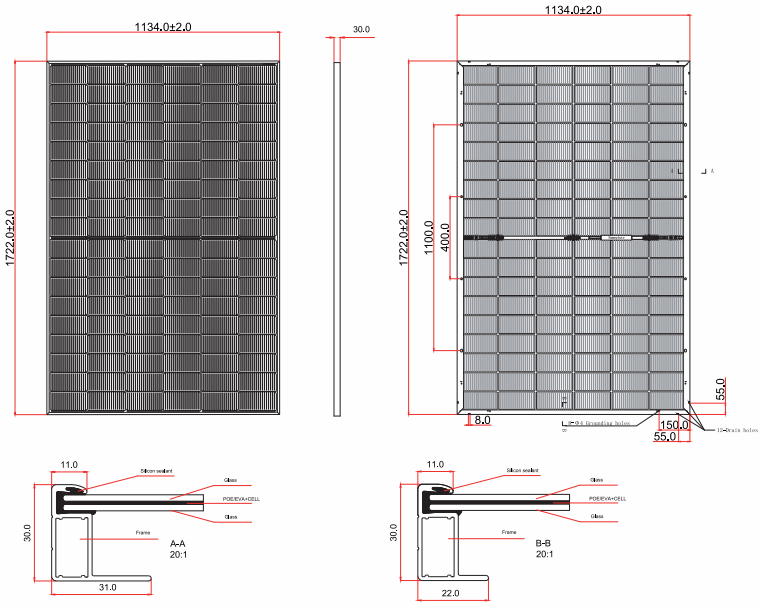
Mechanical Parameters

Cell Type(mm)	HJT 182 Half cell
NO. of Cells and Connections	108(6×18)
Dimensions(L*W*H) (mm)	1722*1134*30
Double AR Coated Glass(mm)	1.6
Cable Length (mm)	300
Weight(kg)	22
NO. of Diodes	3
Container 40'H （Pc）	36/936

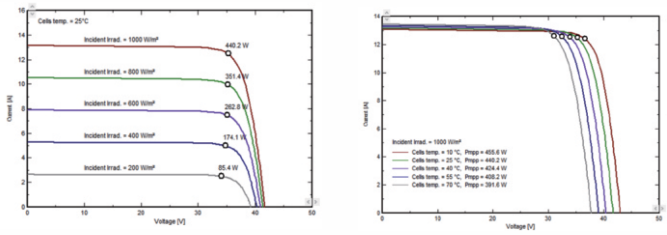
Working Condition

Maximum System Voltage(V)	1500V DC
Operating Temp(°C)	-40～+85
Max. Wind Load （Pa）	2400
Max. Snow Load （Pa）	5400

Dimensions of PV Module(mm)



Characteristic Curves(440W)



Cando-solar Photoelectric Technology Co., Ltd. and Ubacle Group Ltd.

House CA8, Lavender Close, D'Mayors Estate, Apo Legislative, Abuja, FCT. | +2349136000052 | contact@ubaclegroup.com

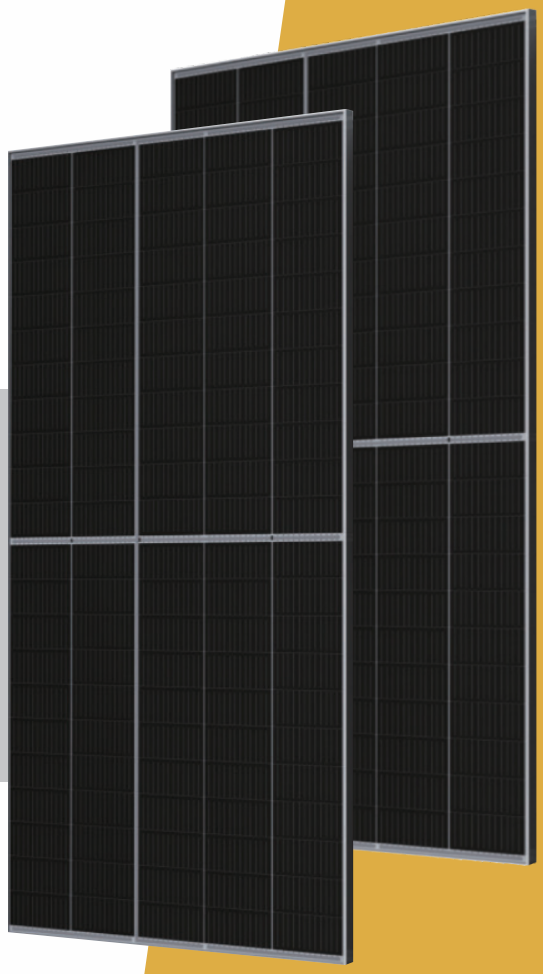
Notice: All data and specifications are preliminary and subject to change without notice.

www.ubaclegroup.com

UBACLE GROUP
RC No. 1774215

Big Eco Series

210 HJT Lead Free Solar Module



PRODUCT:

N1255D

POWER RANGE:

575-600W

*Recommend for C&I and Utility scale power station

600W	23.0%	LEAD FREE	HJT
Max Power Output	Max Panel Efficiency	Advanced Busbar-free Technology	210 Wafer

Excellent Energy Efficiency

- No PID&LID
- Market leading weak light effect and temperature coefficient (-0.24%/°C)
- 210mm large size and Busbar-free technology provide higher efficiency (23.0%)

High Customer Value

- Lower LCOE (Levelized Cost of Energy), reduced BOS (Balance of System) cost, expedited ROI period

High Double-sided Rate 90%

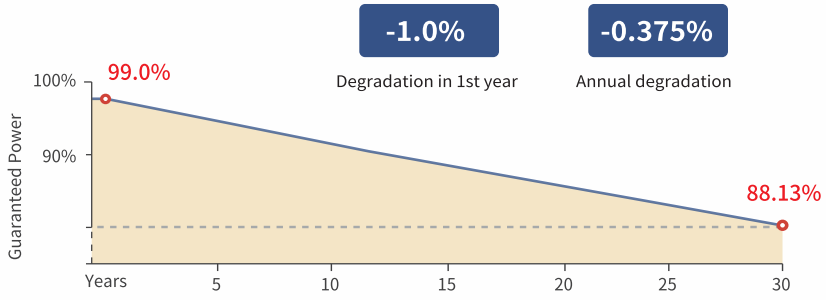
- Additional power generation revenue>5%

The Sustainable Choice

- Fluorine-free and lead-free products;
- Thinner silicon wafer (100 μ m);
- Lower energy consumption (<400kg eq CO2/kWc)

Highest Fire Rating

- Class A



15 years Product Warranty

30 years Power Warranty

Certificates & Warranty

IEC61215 2016&IEC61730 2016

CE ISO Pb Lead-free PFAS PFAS-free

Big Eco Series 210 HJT Lead Free Solar Module

N1255D 575-600W

Electrical data(STC)

Max. Power (W)	575	580	585	590	595	600
Max. Power Voltage Vmp (V)	35.46	35.55	35.73	35.90	36.08	36.26
Max. Power Current Imp (A)	16.22	16.32	16.38	16.44	16.50	16.55
Open Circuit Voltage Voc (V)	41.33	41.63	41.83	42.04	42.25	42.47
Short Circuit Current Isc (A)	17.22	17.35	17.42	17.48	17.55	17.62
Module Efficiency (%)	22.0	22.2	22.4	22.6	22.8	23.0

*STC (Standard Test Condition): Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5
*Measurement Tolerance (±3.0%)

Electrical data(NOCT)

Max. Power (W)	440	444	448	452	455	459
Max. Power Voltage Vmp (V)	33.98	34.08	34.26	34.43	34.53	34.73
Max. Power Current Imp (A)	12.95	13.03	13.08	13.13	13.18	13.22
Open Circuit Voltage Voc (V)	39.69	39.98	40.17	40.38	40.58	40.79
Short Circuit Current Isc (A)	13.89	14.00	14.05	14.10	14.16	14.22

*NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

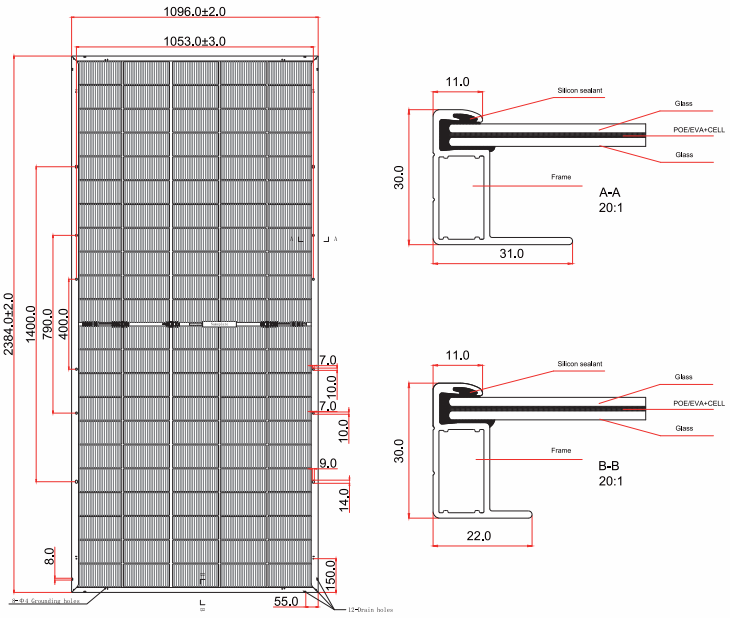
Temperature Ratings

Power Tolerance (W)	0～+5
Temperature Coefficients of γPmp (%/℃)	-0.24
Temperature Coefficients of βVoc (%/℃)	-0.22
Temperature Coefficients of αIsc (%/℃)	+0.047
Max. Over-Current (A)	35
Bifacial Factor (%)	⩾85

Mechanical Parameters

Cell Type (mm)	HJT 210x105
NO. of Cells and Connections	110(5x22)
Dimensions(L*W*H) (mm)	2384x1096x30
Double AR Coated Glass (mm)	2.0+2.0
Cable Length (mm)	300,Length can be customized
Weight (kg)	32.6
NO. of Diodes	3
Container 40'HQ (pcs)	36/720

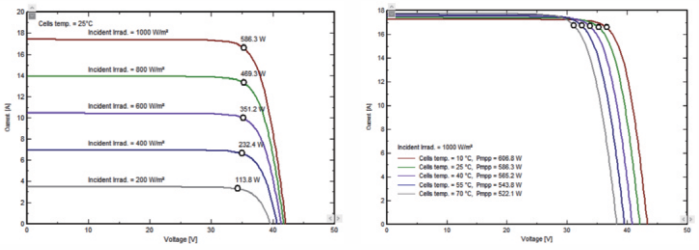
Dimensions of PV Module(mm)



Working Condition

Maximum System Voltage (V)	1500V DC
Operating Temp (℃)	-40～+85
Max. Wind Load (Pa)	2400
Max. Snow Load (Pa)	5400

Characteristic Curves(585W)

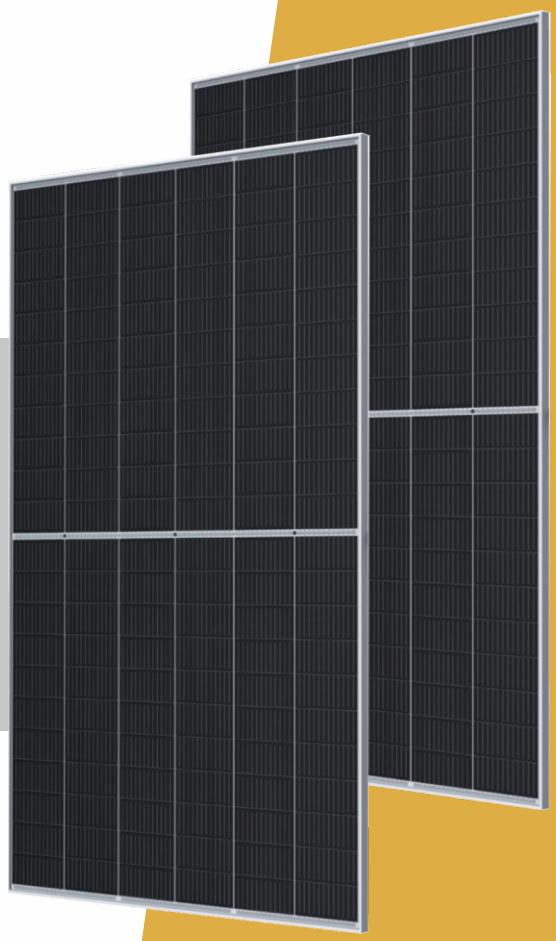


Cando-solar Photoelectric Technology Co., Ltd. and Ubacle Group Ltd.
House CA8, Lavender Close, D'Mayors Estate, Apo Legislative,
Abuja, FCT.
Phone: (+234) 913-600-0052 / Mail: contact@ubaclegroup.com

UBACLE GROUP
RC No. 1774215

Big Eco Series

210 HJT Lead Free Solar Module



PRODUCT:

N1266D

POWER RANGE:

695-720W

*Recommend for C&I and Utility scale power station

720W	23.2%	LEAD FREE	HJT
Max Power Output	Max Panel Efficiency	Advanced Busbar-free Technology	210 Wafer

Excellent Energy Efficiency

- No PID&LID
- Market leading weak light effect and temperature coefficient (-0.24%/°C)
- 210mm large size and Busbar-free technology provide higher efficiency (23.2%)

High Customer Value

- Lower LCOE (Levelized Cost of Energy), reduced BOS (Balance of System) cost, expedited ROI period

High Double-sided Rate 90%

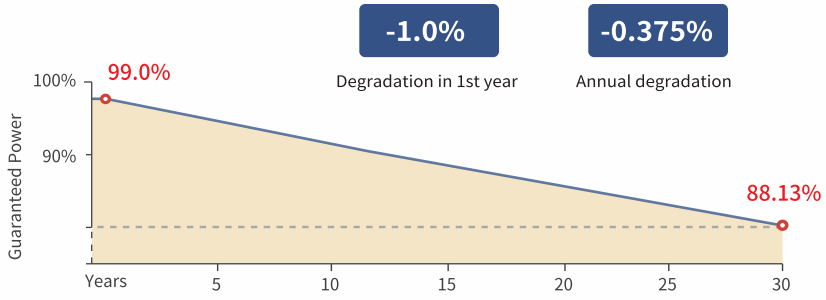
- Additional power generation revenue>5%

The Sustainable Choice

- Fluorine-free and lead-free products;
- Thinner silicon wafer (100 μ m);
- Lower energy consumption (<400kg eq CO2/kWc)

Highest Fire Rating

- Class A



15 years Product Warranty

30 years Power Warranty

Certificates & Warranty

IEC61215 2016&IEC61730 2016

CE ISO Pb Lead-free PFAS PFAS-free

Big Eco Series 210 HJT Lead Free Solar Module

N1266D 695-720W

Electrical data(STC)

Max. Power (W)	695	700	705	710	715	720
Max. Power Voltage Vmp (V)	42.61	42.79	42.97	43.15	43.33	43.51
Max. Power Current Imp (A)	16.32	16.36	16.41	16.46	16.51	16.55
Open Circuit Voltage Voc (V)	50.05	50.23	50.41	50.59	50.77	50.97
Short Circuit Current Isc (A)	17.38	17.43	17.47	17.52	17.57	17.62
Module Efficiency (%)	22.4	22.5	22.7	22.9	23.0	23.2

*STC (Standard Test Condition): Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5
*Measurement Tolerance (±3.0%)

Electrical data(NOCT)

Max. Power (W)	532	536	540	543	547	551
Max. Power Voltage Vmp (V)	40.83	41.01	41.19	41.30	41.48	41.68
Max. Power Current Imp (A)	13.03	13.07	13.11	13.15	13.19	13.22
Open Circuit Voltage Voc (V)	48.07	48.24	48.41	48.59	48.76	48.95
Short Circuit Current Isc (A)	14.02	14.06	14.09	14.13	14.17	14.22

*NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

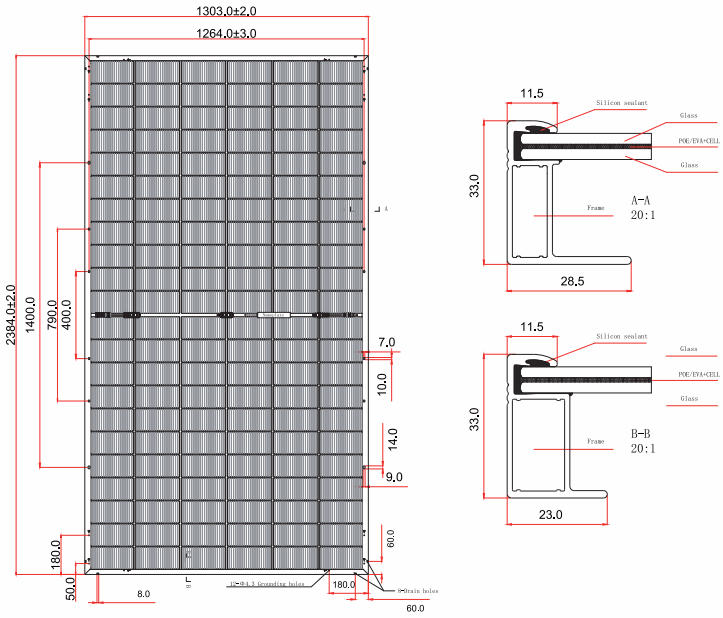
Temperature Ratings

Power Tolerance (W)	0～+5
Temperature Coefficients of γPmp (%/°C)	-0.24
Temperature Coefficients of βVoc (%/°C)	-0.22
Temperature Coefficients of αIsc (%/°C)	+0.047
Max. Over-Current (A)	35
Bifacial Factor (%)	⩾85

Mechanical Parameters

Cell Type (mm)	HJT 210x105
NO. of Cells and Connections	132(6x22)
Dimensions(L*W*H) (mm)	2384x1303x33
Double AR Coated Glass (mm)	2.0+2.0
Cable Length (mm)	300,Length can be customized
Weight (kg)	39.0
NO. of Diodes	3
Container 40'HQ (pcs)	33/594

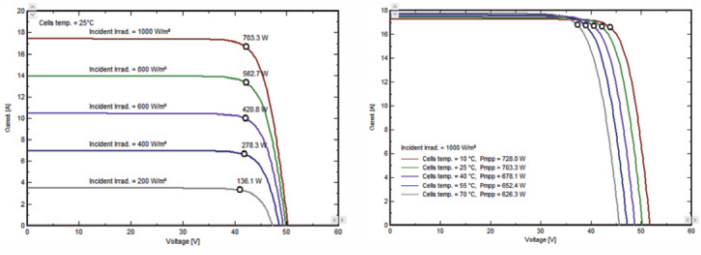
Dimensions of PV Module(mm)



Working Condition

Maximum System Voltage (V)	1500V DC
Operating Temp (°C)	-40～+85
Max. Wind Load (Pa)	2400
Max. Snow Load (Pa)	5400

Characteristic Curves(700W)

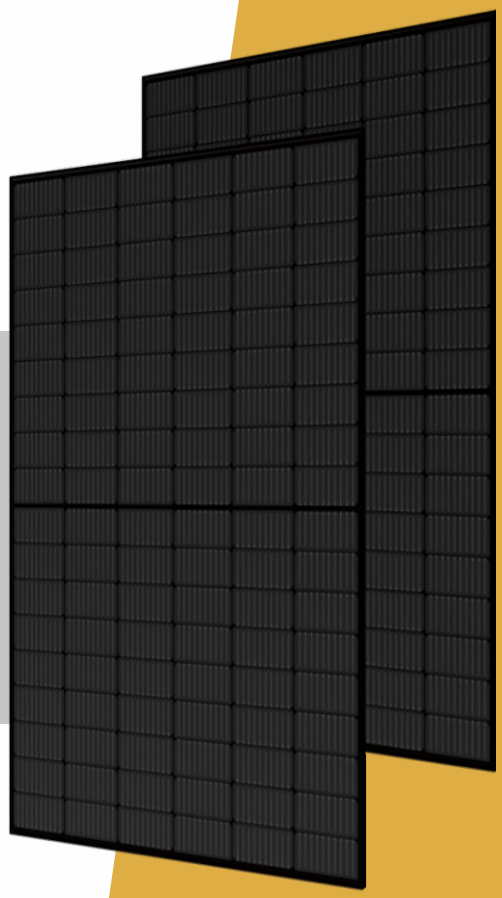


Cando-solar Photoelectric Technology Co., Ltd. and Ubacle Group Ltd.
House CA8, Lavender Close, D'Mayors Estate, Apo Legislative,
Abuja, FCT.
Phone: (+234) 913-600-0052 / Mail: contact@ubaclegroup.com

UBACLE GROUP
RC No. 1774215

Feather-Light Series

182 PERC Solar Module



PRODUCT:

P1054L-BZ

POWER RANGE:

395-420W

*Recommend for C&I and residential rooftop

420W	21.5%	SMBB	PERC
Max Power Output	Max Panel Efficiency	Super Multi-busbar Technology	182 Wafer

Excellent Energy Efficiency

- Market leading temperature coefficient(-0.35%/°C);
- 182mm large size and SMBB technology provide higher efficiency (21.5%)

Aesthetic Appearance Design

- Elegant design in all-black appearance, harmounious integration with the components of the building to provide an intense aesthetic experience

Multi-busbar Technology

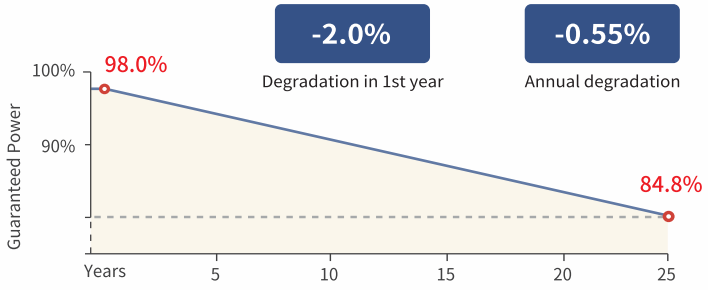
- Extremely high light utilization;
- Greater power collection capability;
- Effectively improve power output and reliability

Flexible Module Design

- Small panel design, light in weight, flexible in transportation and loading

PID Resistance

- Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



15 years Product Warranty

25 years Power Warranty

Certificates & Warranty

IEC61215 2016&IEC61730 2016

Feather-Light Series 182 PERC Solar Module

P1054L-BZ 395-420W

Electrical Data(STC)

Max. Power (W)	395	400	405	410	415	420
Max. Power Voltage Vmp (V)	30.81	31	31.19	31.38	31.57	31.76
Max. Power Current Imp (A)	12.83	12.91	12.99	13.07	13.15	13.23
Open Circuit Voltage Voc (V)	36.89	37.07	37.25	37.43	37.61	37.79
Short Circuit Current Isc (A)	13.62	13.7	13.78	13.86	13.94	14.02
Module Efficiency (%)	20.3	20.5	20.8	21.0	21.3	21.5

*STC (Standard Test Condition): Irradiance 1000W/㎡, Cell Temperature 25°C, Air Mass 1.5
*Measurement Tolerance (±3.0%)

Electrical Data(NOCT)

Max. Power (W)	296	300	304	307	311	315
Max. Power Voltage Vmp (V)	28.88	29.1	29.29	29.41	29.62	29.81
Max. Power Current Imp (A)	10.25	10.31	10.38	10.44	10.5	10.57
Open Circuit Voltage Voc (V)	31.45	31.60	31.75	31.91	32.06	32.21
Short Circuit Current Isc (A)	10.99	11.05	11.12	11.18	11.25	11.31

*NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Temperature Ratings

Power Tolerance (W)	0～+5
Temperature Coefficients of γPmp (%/℃)	-0.35
Temperature Coefficients of βVoc (%/℃)	-0.28
Temperature Coefficients of αIsc (%/℃)	+0.048
Max. Over-Current (A)	25

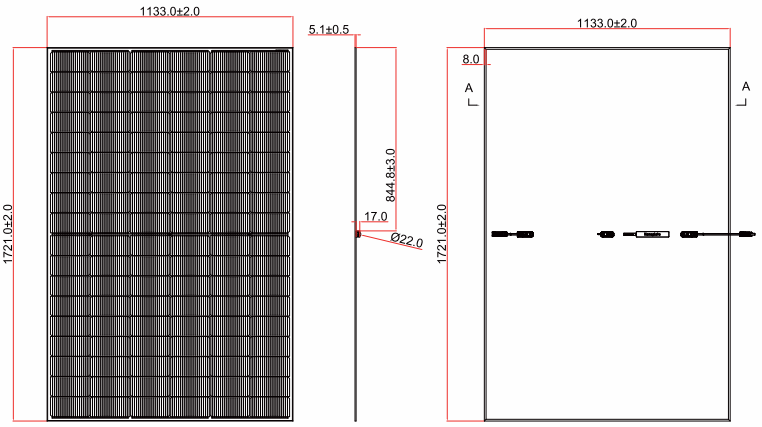
Mechanical Parameters

Cell Type (mm)	PERC 182 Half cell
NO. of Cells and Connections	108(6×18)
Dimensions(L*W*H) (mm)	1721*1133*5.1
Front AR Coated Glass (mm)	1.6
Backsheet (mm)	0.7
Cable Length (mm)	300,Length can be customized
Weight (kg)	12.5
NO. of Diodes	3
Container 40'HQ (pcs)	33/bottom, 31/top, 64/stack,768/container
Container 20'GP (pcs)	33/bottom, 21/top, 54/stack,324/container

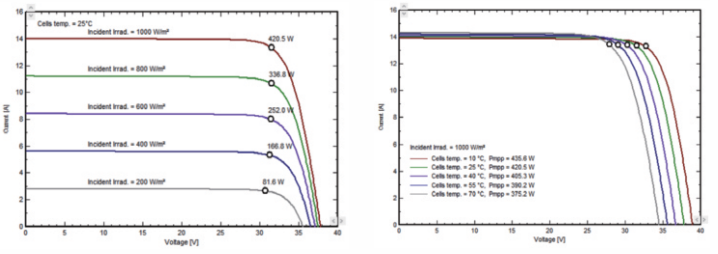
Working Condition

Maximum System Voltage (V)	1500V DC
Operating Temp (℃)	-40～+85
Max. Wind Load (Pa)	2400
Max. Snow Load (Pa)	2400

Dimensions of PV Module(mm)



Characteristic Curves(420W)

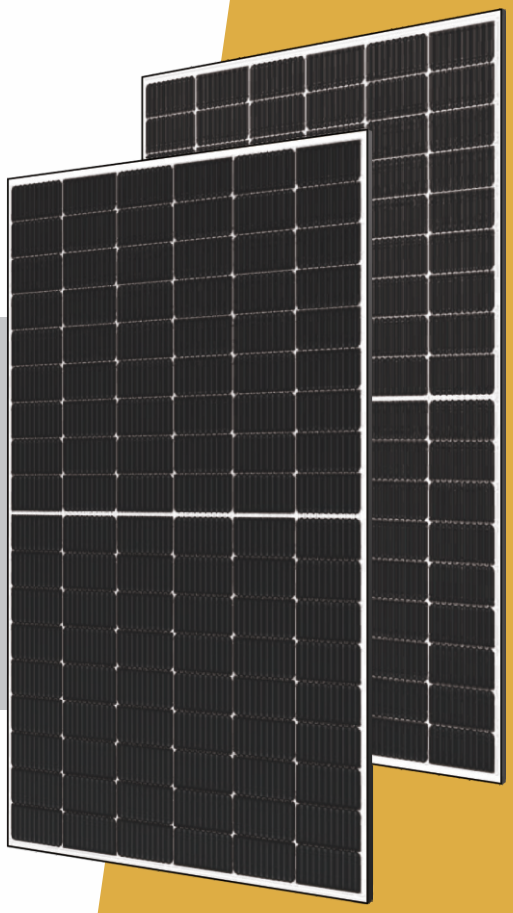


Cando-solar Photoelectric Technology Co., Ltd. and Ubacle Group Ltd.
House CA8, Lavender Close, D'Mayors Estate, Apo Legislative,
Abuja, FCT.
Phone: (+234) 913-600-0052 / Mail: contact@ubaclegroup.com

UBACLE GROUP
RC No. 1774215

Feather-Light Series

182 PERC Solar Module



PRODUCT:

P1054L-WZ

POWER RANGE:

395-420W

*Recommend for C&I and residential rooftop

420W	21.5%	SMBB	PERC
Max Power Output	Max Panel Efficiency	Super Multi-busbar Technology	182 Wafer

Excellent Energy Efficiency

- Market leading temperature coefficient(-0.35%/°C);
- 182mm large size and SMBB technology provide higher efficiency (21.5%)

Safety and Reliability

- 1.6mm reinforced glass, with stronger stress bearing and impact resistance capacity;
Hail resistance capacity was verified through multiple scenarios

Multi-busbar Technology

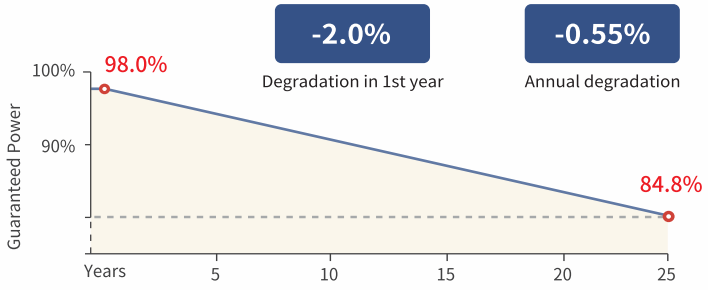
- Extremely high light utilization;
- Greater power collection capability;
- Effectively improve power output and reliability

Flexible Module Design

- Small panel design, light in weight, flexible in transportation and loading

PID Resistance

- Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



15 years Product Warranty

25 years Power Warranty

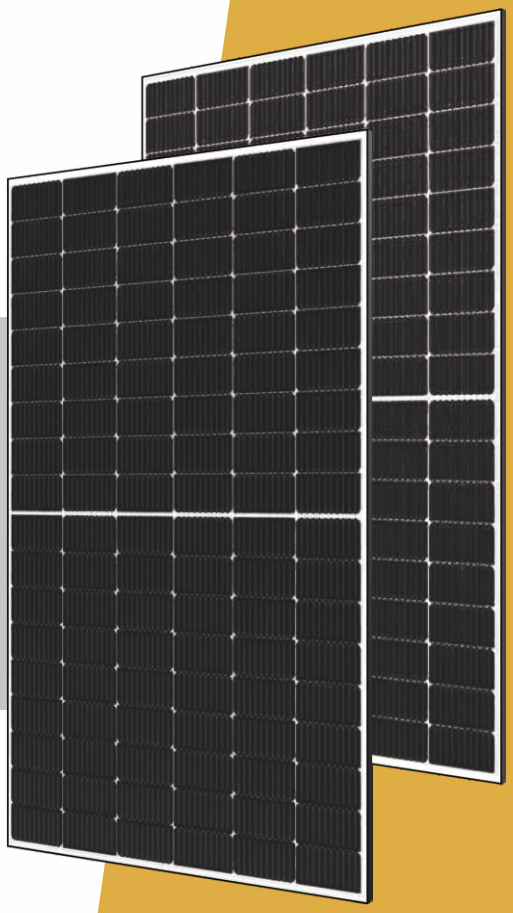
Certificates & Warranty

IEC61215 2016&IEC61730 2016

UBACLE GROUP
RC No. 1774215

Feather-Light Series

182 PERC Solar Module



PRODUCT:

P1054L-WZ

POWER RANGE:

395-420W

*Recommend for C&I and residential rooftop

420W	21.5%	SMBB	PERC
Max Power Output	Max Panel Efficiency	Super Multi-busbar Technology	182 Wafer

Excellent Energy Efficiency

- Market leading temperature coefficient(-0.35%/°C);
- 182mm large size and SMBB technology provide higher efficiency (21.5%)

Safety and Reliability

- 1.6mm reinforced glass, with stronger stress bearing and impact resistance capacity;
  Hail resistance capacity was verified through multiple scenarios

Multi-busbar Technology

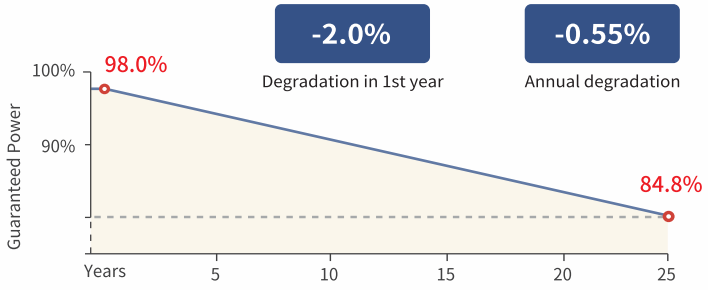
- Extremely high light utilization;
- Greater power collection capability;
- Effectively improve power output and reliability

Flexible Module Design

- Small panel design, light in weight, flexible in transportation and loading

PID Resistance

- Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



15 years Product Warranty

25 years Power Warranty

Certificates & Warranty

IEC61215 2016&IEC61730 2016

Feather-Light Series 182 PERC Solar Module

P1054L-WZ 395-420W

Electrical Data(STC)

Max. Power (W)	395	400	405	410	415	420
Max. Power Voltage Vmp (V)	30.81	31	31.19	31.38	31.57	31.76
Max. Power Current Imp (A)	12.83	12.91	12.99	13.07	13.15	13.23
Open Circuit Voltage Voc (V)	36.89	37.07	37.25	37.43	37.61	37.79
Short Circuit Current Isc (A)	13.62	13.7	13.78	13.86	13.94	14.02
Module Efficiency (%)	20.3	20.5	20.8	21.0	21.3	21.5

*STC (Standard Test Condition): Irradiance 1000W/㎡, Cell Temperature 25°C, Air Mass 1.5
*Measurement Tolerance (±3.0%)

Electrical Data(NOCT)

Max. Power (W)	296	300	304	307	311	315
Max. Power Voltage Vmp (V)	28.88	29.1	29.29	29.41	29.62	29.81
Max. Power Current Imp (A)	10.25	10.31	10.38	10.44	10.5	10.57
Open Circuit Voltage Voc (V)	31.45	31.60	31.75	31.91	32.06	32.21
Short Circuit Current Isc (A)	10.99	11.05	11.12	11.18	11.25	11.31

*NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Temperature Ratings

Power Tolerance (W)	0～+5
Temperature Coefficients of γPmp (%/℃)	-0.35
Temperature Coefficients of βVoc (%/℃)	-0.28
Temperature Coefficients of αIsc (%/℃)	+0.048
Max. Over-Current (A)	25

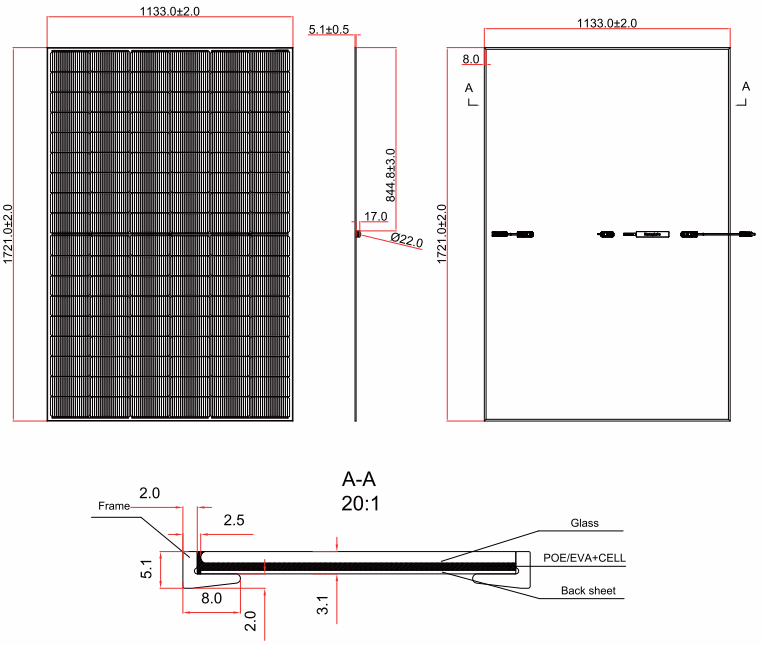
Mechanical Parameters

Cell Type (mm)	PERC 182 Half cell
NO. of Cells and Connections	108(6×18)
Dimensions (L*W*H) (mm)	1721*1133*5.1
Front AR Coated Glass (mm)	1.6
Backsheet (mm)	0.7
Cable Length (mm)	300,Length can be customized
Weight (kg)	12.5
NO. of Diodes	3
Container 40'HQ (pcs)	33/bottom, 31/top, 64/stack,768/container
Container 20'GP (pcs)	33/bottom, 21/top, 54/stack,324/container

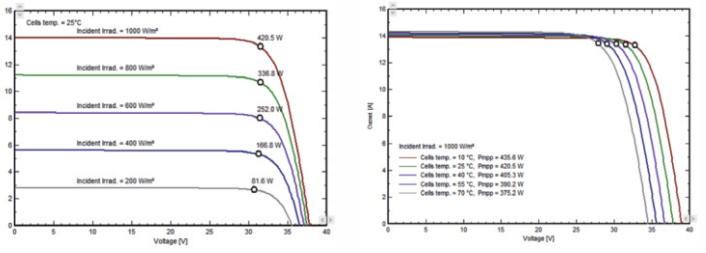
Working Condition

Maximum System Voltage (V)	1500V DC
Operating Temp (℃)	-40～+85
Max. Wind Load (Pa)	2400
Max. Snow Load (Pa)	2400

Dimensions of PV Module(mm)



Characteristic Curves(420W)



Cando-solar Photoelectric Technology Co., Ltd. and Ubacle Group Ltd.
House CA8, Lavender Close, D'Mayors Estate, Apo Legislative,
Abuja, FCT.
Phone: (+234) 913-600-0052 / Mail: contact@ubaclegroup.com

Big Eco Series

182PERC Half-cell Monofacial Module

PRODUCT:CDS-P1072M
POWER RANGE: 540-560W

560W	21.7%	MONOFACIAL	MBB
Max Power output	Max Panel Efficiency	Half-cell	182 Wafer

Advantages

More Power Output

- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection
- Lower temperature coefficient, less shading loss

Reduced Hot Spot Loss

- Optimized electrical design and lower operating current for reduced hot spot loss

Longer Life-time Power Yield

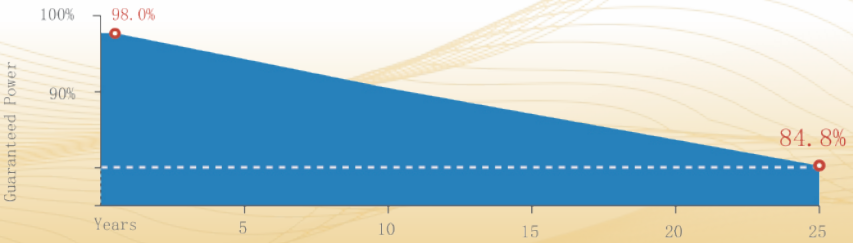
- 0.55% annual power degradation and 25 year linear power warranty

Maximum safety

- Minimized micro-cracks with innovative non-destructive cutting technology
- Resistant to harsh environments such as salt, ammonia, sand
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load

Certificates & Warranty

- IEC61215:2016&IEC61730:2016
- 12 year Product Workmanship Warranty
- 25year Power Warranty
- 2% first year degradation and 0.55% Annual Power Attenuation



Big Eco Series

182PERC Half-cell Monofacial Module

PRODUCT:CDS-P1072M
POWER RANGE: 540-560W

Electrical data(STC)

Max. Power Output Pmax (W)	540	545	550	555	560
Power Tolerance(W)	0~+5				
Max. Power Voltage Vmp(V)	41.04	41.21	41.38	41.55	41.72
Max. Power Current Imp(A)	13.16	13.23	13.3	13.36	13.43
Open Circuit Voltage Voc(V)	49.22	49.38	49.54	49.7	49.86
Short Circuit Current Isc(A)	13.98	14.04	14.1	14.16	14.22
Module Efficiency (%)	20.9	21.1	21.3	21.5	21.7

*STC (Standard Test Condition): Irradiance 1000W/m² , Cell Temperature 25℃, Air Mass 1.5
*Measurement Tolerance (±3.0%)

Electrical data(NOCT)

Max. Power Output Pmax (W)	413	417	421	421	429
Max. Power Voltage Vmp(V)	39.30	39.46	39.65	39.84	39.99
Max. Power Current Imp(A)	10.51	10.57	10.62	10.67	10.73
Open Circuit Voltage Voc(V)	47.27	47.42	47.58	47.73	47.89
Short Circuit Current Isc(A)	11.28	11.33	11.38	11.42	11.47

*NOCT: Irradiance at 800W/m², Ambient Temperature 20℃, Wind Speed 1m/s.

Temperature Ratings

Temperature Coefficients of Pmp	-0.35%/℃
Temperature Coefficients of Voc	-0.28%/℃
Temperature Coefficients of Isc	+0.048%/℃
NOCT(Nominal Operating Cell Temperature)	43±2°C

Mechanical Data

Solar Cells	PERC 182×91mm
No. of cells	144pcs(6*24)
Module Dimensions	2278×1134×30mm
Weight	27.9kg
Glass	2.0 mm, Double AR Coated Heat Strengthened Glass
Frame	30mm Anodized Aluminium Alloy
J-Box	IP 68（3 diodes
Cables	4mm², 300mm each (Length can be customized in special case)

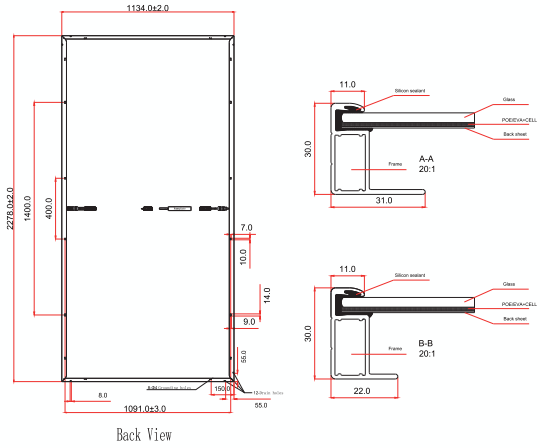
Operating Properties

Maximum System Voltage（V）	1500(DC)
Operating Temperature（℃）	-40~+85
Mechanical load(pa)	2400/5400
Maximum Series Fuse Rating（A）	25

Packaging Configuration

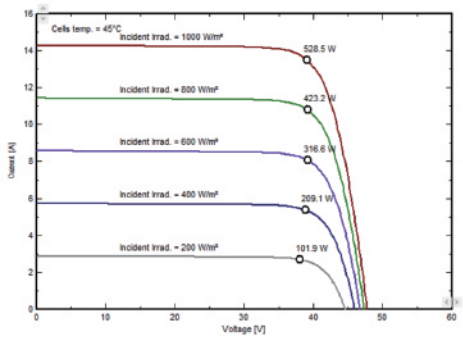
Modules Per Pallet	36pcs
Modules Per Container(40HC)	720pcs

Dimensions of PV Module(mm)

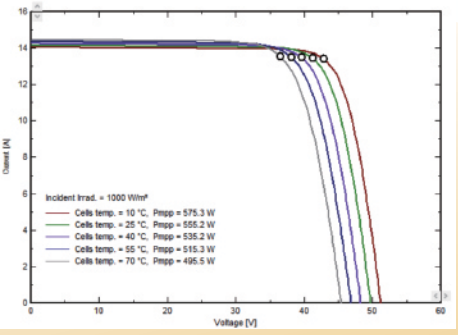


Characteristic Curves (555W)

Test temperature 25℃



Irradiance AM1.5,1000W/m²



Cando-solar Photoelectric Technology Co., Ltd. and Ubacle Group Ltd.
contact@ubaclegroup.com
House CA8, Lavender Close, D'Mayors Estate, Apo Legislative, Abuja, FCT.

UBACLE®

GROUP

RC No. 1774215

FOR MORE INFORMATION AND ENQUIRIES

(+234) 913-600-0052

contact@ubaclegroup.com

www.ubaclegroup.com