



LESSO[®] America

SOLAR PV MODULES

LESSO AMERICA INC.

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LESSO Group (2128) is listed in the Stock Exchange of Hong Kong.

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LESSO, BUILDING A SOLAR-POWERED WORLD

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LESSO AMERICA, INC.

Headquarter based in Corona, CA. We are dedicated to manufacturing reliable and high efficiency photovoltaic (PV) panels that meet stringent U.S. approvals and raw material traceability.

PT LESSO Indonesia facility is the largest and most advanced PV factory in Indonesia, with a robust 1.2GW+ annual production capacity to meet the U.S. domestic market demands.

Certified by 100+ international certificate authorities, including UL, CEC, TUV, CE, and ISO, which emphasizes our focus on quality, safety, and environmental responsibility.



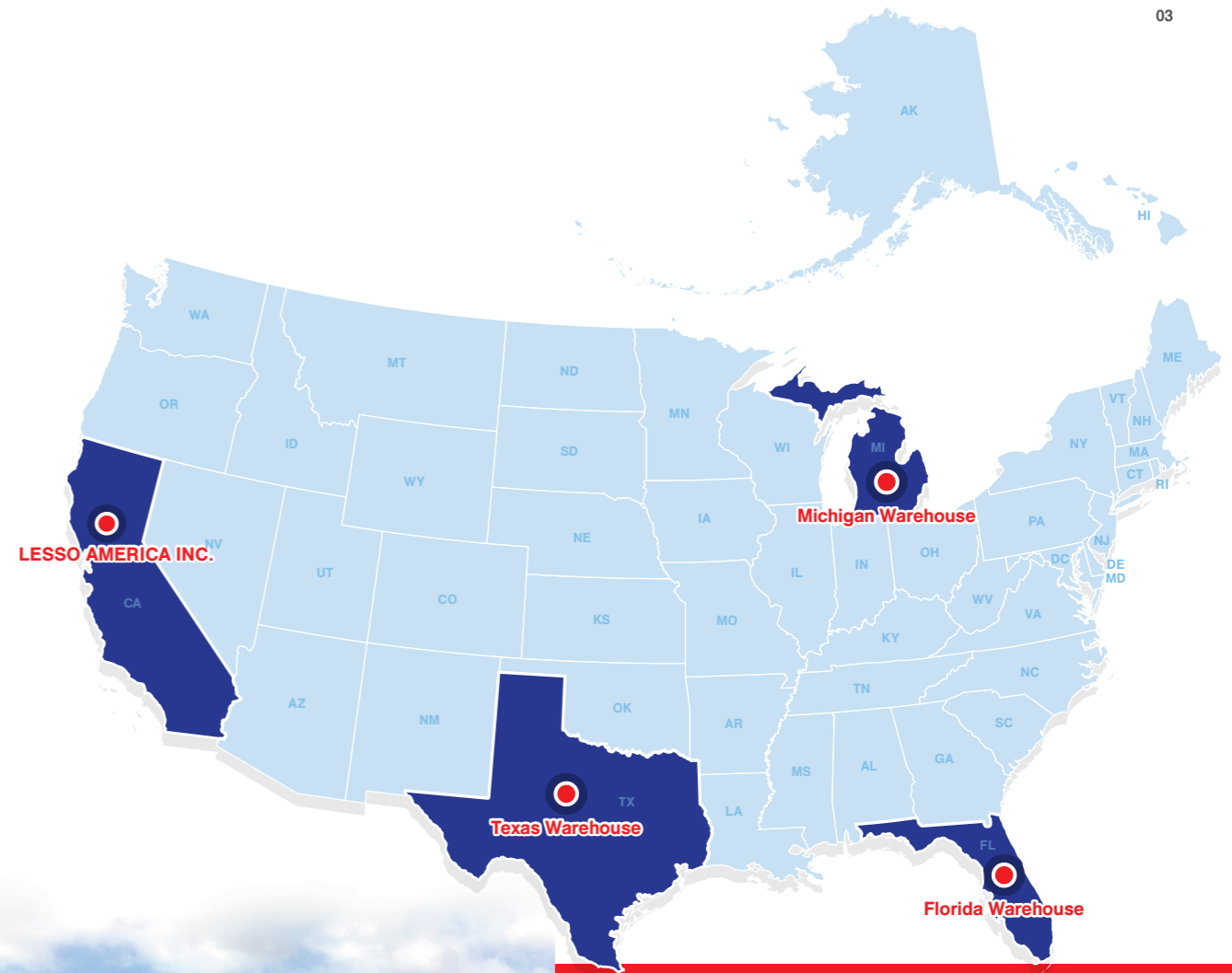
USD 4.6 Bil
Annual Sales Revenue



38 Years
Production Experience



15.3GW
Solar Modules Manufacturing Capacity



With a strong distribution network across the U.S. through our 4 major warehousing centers in California, Michigan, Texas, and Florida, LESSO America has the confidence to ensure the timely delivery of high-quality TOPCon PV panels from coast to coast. Keep providing a better after sales service experience in decades.



LESSO Florida Warehouse



LESSO Michigan Warehouse



LESSO Texas Warehouse



LEADING THE FUTURE WITH INTELLIGENT MANUFACTURING



PT LESSO Indonesia

LESSO America, INC. is dedicated to providing superior American standard solar solutions. To support this aspiration, we have established the PT LESSO Indonesia in 2022, located at Batu Town, Demak, which is focused on manufacturing and supplying high-efficiency photovoltaic (PV) panels to the U.S. market.

Covering an area of 118,000 m², the factory is equipped with advanced automated machineries. Currently, two production lines are operating, with a yearly capacity of 1.2GW+. The third production line is also under way, and the yearly capacity will increase to 2.4GW+.

The LESSO Indonesia production centre guarantees that the solar panels comply with the exacting standards of the U.S. market and provides customers across the U.S. with dependable and high-performance solar solutions.

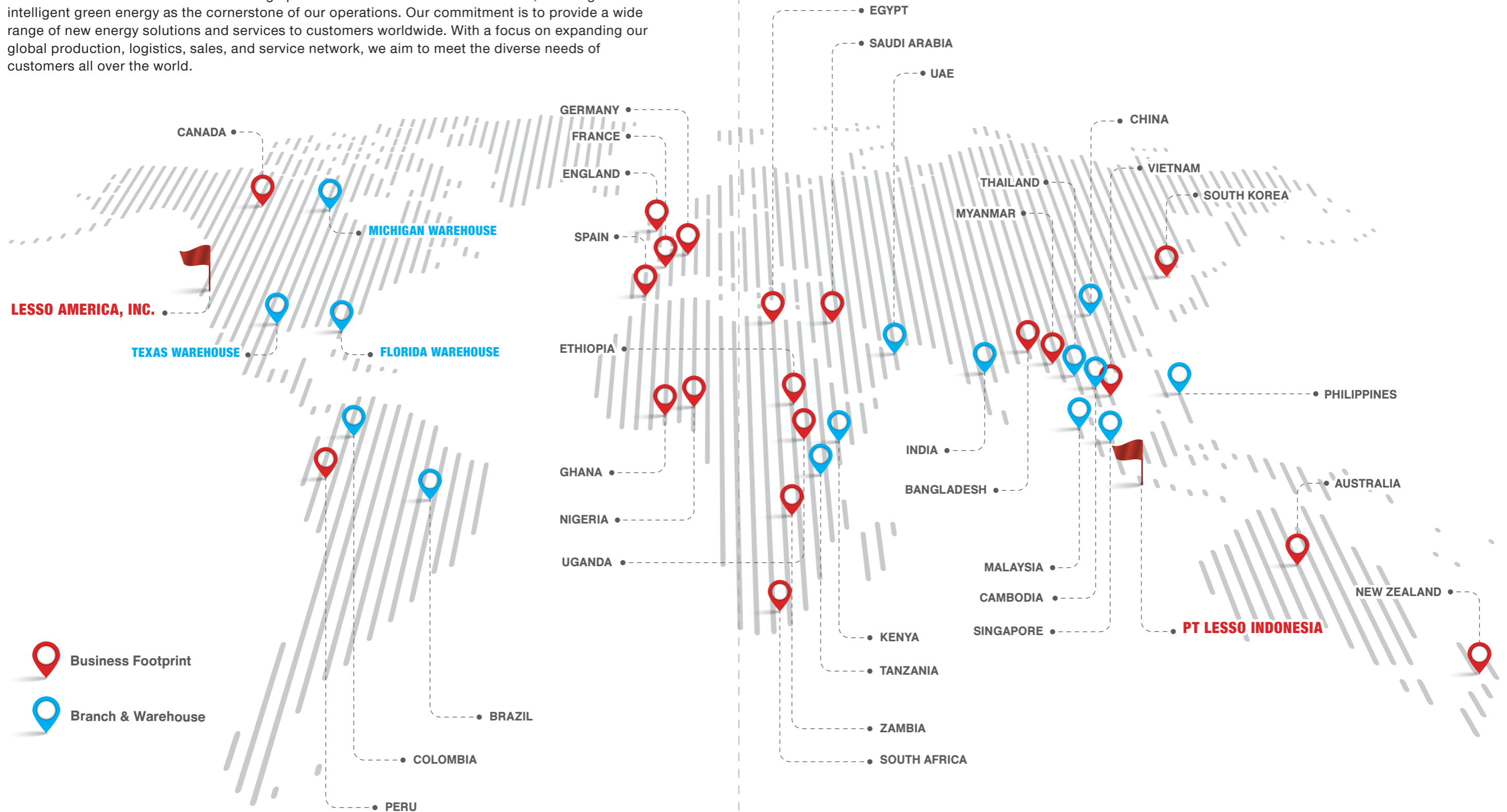
Our Certificates

- IEC61215, IEC61730
- ISO 9001:2015 Quality Management System
- ISO 14001:2015 Environment Management System
- ISO 45001:2018 Occupational Health and Safety Management System



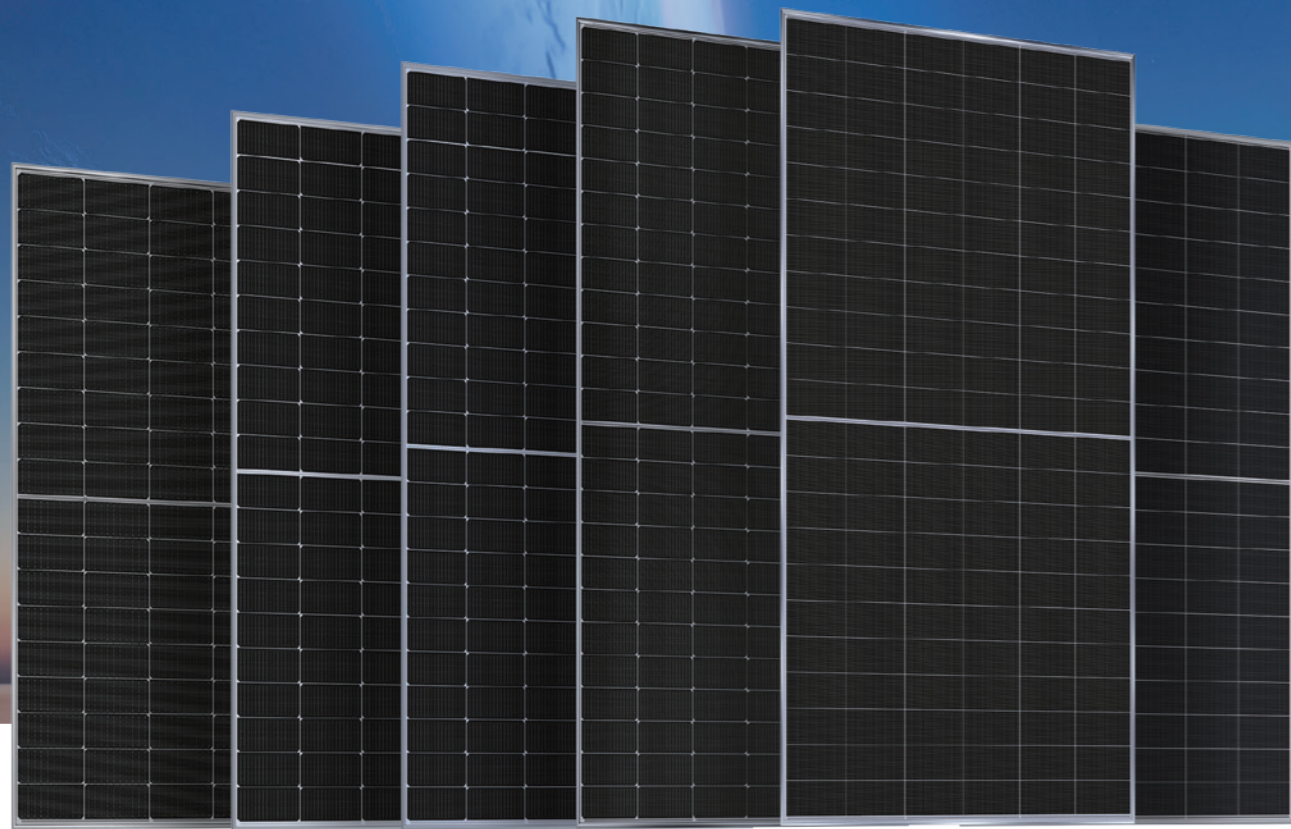
LESSO SOLAR GLOBAL FOOTPRINT

LESSO Solar has been expediting the adoption of smart manufacturing by proactively building smart factories across the world. Drawing upon the extensive resources of LESSO, we integrate intelligent green energy as the cornerstone of our operations. Our commitment is to provide a wide range of new energy solutions and services to customers worldwide. With a focus on expanding our global production, logistics, sales, and service network, we aim to meet the diverse needs of customers all over the world.



N-TOPCon series

Cutting-edge Technology, Leading Innovation



Features and Benefits

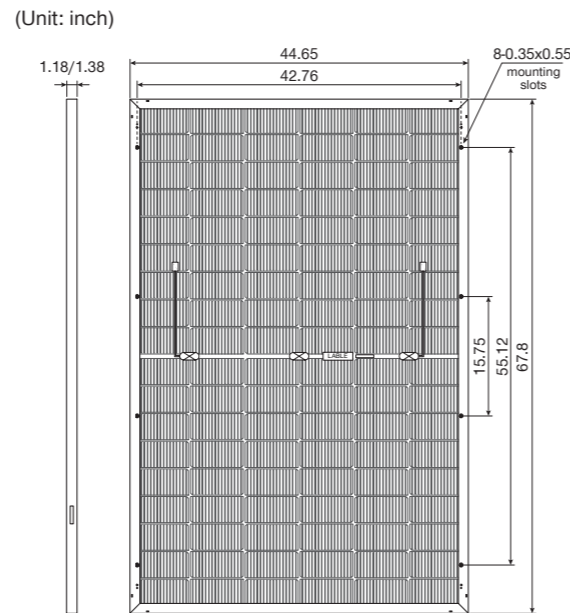
-  N-TOPCon brings 10-30% additional power generation comparing with conventional P-type module.
-  Higher power output even under low-light environments like on cloudy or foggy days.
-  N-TOPCon solar cell has no LID naturally which can increase power generation.
-  Higher power generation under working conditions, thanks to passivating contact cell technology.
-  Higher bifaciality, higher power output and lower BOS cost.
-  More application scenes like BIPV, vertical installation, snowfield, high-humid, windy and dusty area.
-  Double sides power output to reach higher comprehensive efficiency and get more profit.

182 N-TOPCon Bifacial Module

Power Range
415W ~ 430W

Power Output Tolerance
0W ~ +5W

Maximum Efficiency
22.02%



Electrical Performance Parameters STC					
Model Type		415C(HBD) 54(182)	420C(HBD) 54(182)	425C(HBD) 54(182)	430C(HBD) 54(182)
Nominal Max. Power	P _{max} (W)	415	420	425	430
Max. Power Voltage	V _{mp} (V)	31.18	31.42	31.65	31.88
Max. Power Current	I _{mp} (A)	13.31	13.37	13.43	13.49
Open Circuit Voltage	V _{oc} (V)	36.77	36.97	37.17	37.37
Short Circuit Current	I _{sc} (A)	14.55	14.61	14.67	14.73
Module Efficiency	(%)	21.25	21.51	21.76	22.02
Power Output Tolerance	(W)	0~+5W			

* STC: Irradiance 1000W/m², Cell Temperature 77°F, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Electrical Performance Parameters NMOT					
Model Type		415C(HBD) 54(182)	420C(HBD) 54(182)	425C(HBD) 54(182)	430C(HBD) 54(182)
Nominal Max. Power	P _{max} (W)	311	315	319	323
Max. Power Voltage	V _{mp} (V)	29.41	29.61	29.82	30.02
Max. Power Current	I _{mp} (A)	10.58	10.64	10.70	10.76
Open Circuit Voltage	V _{oc} (V)	34.30	34.49	34.68	34.87
Short Circuit Current	I _{sc} (A)	11.80	11.85	11.90	11.95

* NMOT: Irradiance 800W/m², Cell Temperature 68°F, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance	
Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	108pcs(6×18)
Module Dimension	67.8×44.65×1.38/1.18in
Weight	53.1lbs(1.38in) / 51.6lbs(1.18in)
Front Glass	0.08in, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , portrait 15.75in(+), 7.27in(-), landscape 55.12in(+), 55.12in(-) Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(1.38in) / 36pcs(1.18in)
Per Container(40'HQ)	806pcs(1.38in) / 936pcs(1.18in)

Temperature Characteristics	
Nominal Module Operating Temperature	111.2±3.6°F
Temperature Coefficient (I _{sc})	+0.043%
Temperature Coefficient (V _{oc})	-0.25%
Temperature Coefficient (P _{max})	-0.30%

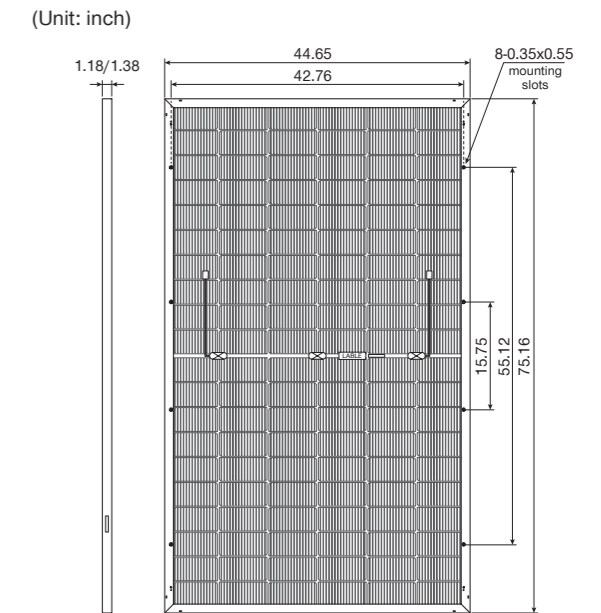
Maximum Parameters	
Working Temperature	-40°F~+185°F
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A

182 N-TOPCon Bifacial Module

Power Range
465W ~ 480W

Power Output Tolerance
0W ~ +5W

Maximum Efficiency
22.17%



Electrical Performance Parameters STC					
Model Type		465C(HBD) 60(182)	470C(HBD) 60(182)	475C(HBD) 60(182)	480C(HBD) 60(182)
Nominal Max. Power	P _{max} (W)	465	470	475	480
Max. Power Voltage	V _{mp} (V)	34.84	35.05	35.27	35.48
Max. Power Current	I _{mp} (A)	13.35	13.41	13.47	13.53
Open Circuit Voltage	V _{oc} (V)	41.47	41.67	41.87	42.07
Short Circuit Current	I _{sc} (A)	14.43	14.49	14.55	14.61
Module Efficiency	(%)	21.48	21.71	21.94	22.17
Power Output Tolerance	(W)	0~+5W			

* STC: Irradiance 1000W/m², Cell Temperature 77°F, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Electrical Performance Parameters NMOT					
Model Type		465C(HBD) 60(182)	470C(HBD) 60(182)	475C(HBD) 60(182)	480C(HBD) 60(182)
Nominal Max. Power	P _{max} (W)	349	353	357	361
Max. Power Voltage	V _{mp} (V)	32.87	33.06	33.25	33.43
Max. Power Current	I _{mp} (A)	10.62	10.68	10.74	10.80
Open Circuit Voltage	V _{oc} (V)	38.96	39.15	39.34	39.53
Short Circuit Current	I _{sc} (A)	11.74	11.79	11.84	11.89

* NMOT: Irradiance 800W/m², Cell Temperature 68°F, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance	
Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	120pcs(6×20)
Module Dimension	75.16×44.65×1.38/1.18in
Weight	59.3lbs(1.38in) / 56.7lbs(1.18in)
Front Glass	0.08in, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , portrait 15.75in(+), 7.27in(-), landscape 55.12in(+), 55.12in(-) Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(1.38in) / 36pcs(1.18in)
Per Container(40'HQ)	744pcs(1.38in) / 864pcs(1.18in)

Temperature Characteristics	
Nominal Module Operating Temperature	111.2±3.6°F
Temperature Coefficient (I _{sc})	+0.043%
Temperature Coefficient (V _{oc})	-0.25%
Temperature Coefficient (P _{max})	-0.30%

Maximum Parameters	
Working Temperature	-40°F~+185°F
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A

12 years product workmanship warranty

30 years linear power output warranty

1st year power degradation no more than **1%**

Subsequent annual power degradation no more than **0.40%**

12 years product workmanship warranty

30 years linear power output warranty

1st year power degradation no more than **1%**

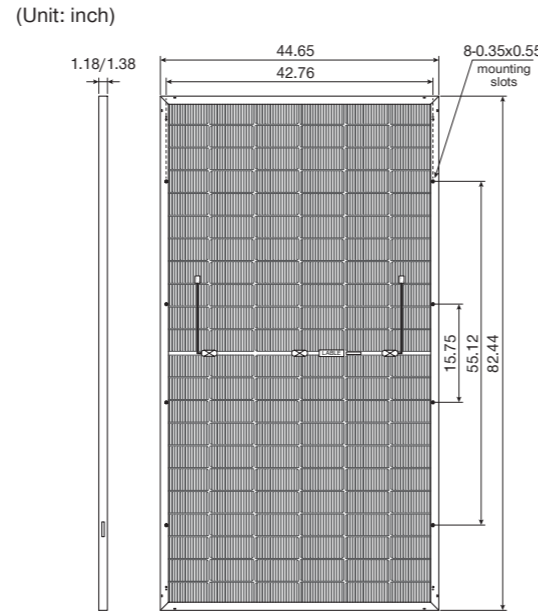
Subsequent annual power degradation no more than **0.40%**

182 N-TOPCon Bifacial Module

Power Range
515W ~ 530W

Power Output Tolerance
0W ~ +5W

Maximum Efficiency
22.32%



Electrical Performance Parameters | STC

Model Type	515C(HBD) 66(182)	520C(HBD) 66(182)	525C(HBD) 66(182)	530C(HBD) 66(182)
Nominal Max. Power P _{max} (W)	515	520	525	530
Max. Power Voltage V _{mp} (V)	38.50	38.70	38.89	39.09
Max. Power Current I _{mp} (A)	13.38	13.44	13.50	13.56
Open Circuit Voltage V _{oc} (V)	46.17	46.37	46.57	46.77
Short Circuit Current I _{sc} (A)	14.31	14.37	14.43	14.49
Module Efficiency (%)	21.69	21.90	22.11	22.32
Power Output Tolerance (W)	0~+5W			

* STC: Irradiance 1000W/m², Cell Temperature 77°F, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Electrical Performance Parameters | NMOT

Model Type	515C(HBD) 66(182)	520C(HBD) 66(182)	525C(HBD) 66(182)	530C(HBD) 66(182)
Nominal Max. Power P _{max} (W)	386	390	394	398
Max. Power Voltage V _{mp} (V)	36.22	36.39	36.55	36.72
Max. Power Current I _{mp} (A)	10.66	10.72	10.78	10.84
Open Circuit Voltage V _{oc} (V)	43.62	43.81	44.00	44.19
Short Circuit Current I _{sc} (A)	11.58	11.63	11.68	11.73

* NMOT: Irradiance 800W/m², Cell Temperature 68°F, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	132pcs(6x22)
Module Dimension	82.44×44.65×1.38/1.18in
Weight	65.3lbs(1.38in) / 62.6lbs(1.18in)
Front Glass	0.08in, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , portrait 15.75in(+), 7.87in(-), landscape 55.12in(+), 55.12in(-) Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(1.38in) / 36pcs(1.18in)
Per Container(40'HQ)	682pcs(1.38in) / 792pcs(1.18in)

Temperature Characteristics

Nominal Module Operating Temperature	111.2±3.6°F
Temperature Coefficient (I _{sc})	+0.043%
Temperature Coefficient (V _{oc})	-0.25%
Temperature Coefficient (P _{max})	-0.30%

Maximum Parameters

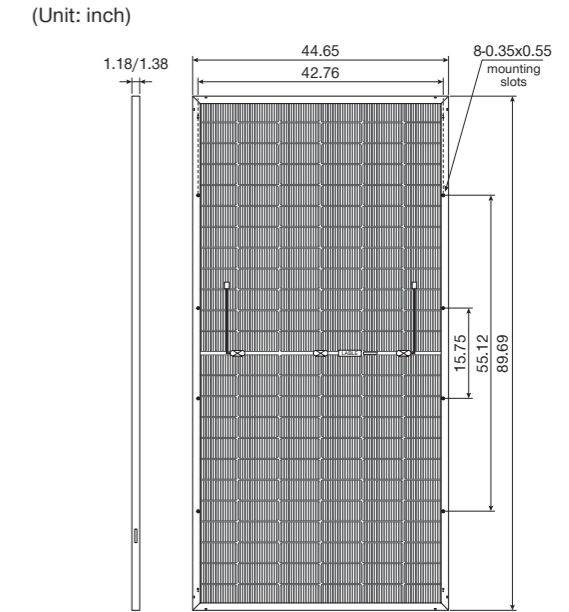
Working Temperature	-40°F~+185°F
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A

182 N-TOPCon Bifacial Module

Power Range
560W ~ 580W

Power Output Tolerance
0W ~ +5W

Maximum Efficiency
22.45%



Electrical Performance Parameters | STC

Model Type	560C(HBD) 72(182)	565C(HBD) 72(182)	570C(HBD) 72(182)	575C(HBD) 72(182)	580C(HBD) 72(182)
Nominal Max. Power P _{max} (W)	560	565	570	575	580
Max. Power Voltage V _{mp} (V)	42.11	42.30	42.45	42.60	42.75
Max. Power Current I _{mp} (A)	13.30	13.36	13.43	13.50	13.57
Open Circuit Voltage V _{oc} (V)	50.63	50.83	51.03	51.23	51.43
Short Circuit Current I _{sc} (A)	14.09	14.15	14.21	14.27	14.33
Module Efficiency (%)	21.68	21.87	22.07	22.26	22.45
Power Output Tolerance (W)	0~+5W				

* STC: Irradiance 1000W/m², Cell Temperature 77°F, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Electrical Performance Parameters | NMOT

Model Type	560C(HBD) 72(182)	565C(HBD) 72(182)	570C(HBD) 72(182)	575C(HBD) 72(182)	580C(HBD) 72(182)
Nominal Max. Power P _{max} (W)	421	425	429	433	437
Max. Power Voltage V _{mp} (V)	39.57	39.72	39.87	40.02	40.17
Max. Power Current I _{mp} (A)	10.64	10.70	10.76	10.82	10.88
Open Circuit Voltage V _{oc} (V)	48.09	48.28	48.47	48.66	48.85
Short Circuit Current I _{sc} (A)	11.37	11.42	11.46	11.51	11.56

* NMOT: Irradiance 800W/m², Cell Temperature 68°F, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	144pcs(6×24)
Module Dimension	89.69×44.65×1.38/1.18in
Weight	71.2lbs(1.38in) / 68.8lbs(1.18in)
Front Glass	0.08in, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , portrait 15.75in(+), 7.87in(-), landscape 55.12in(+), 55.12in(-) Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(1.38in) / 36pcs(1.18in)
Per Container(40'HQ)	620pcs(1.38in) / 720pcs(1.18in)

Temperature Characteristics

Nominal Module Operating Temperature	111.2±3.6°F
Temperature Coefficient (I _{sc})	+0.043%
Temperature Coefficient (V _{oc})	-0.25%
Temperature Coefficient (P _{max})	-0.30%

Maximum Parameters

Working Temperature	-40°F~+185°F
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A

12 years product workmanship warranty

30 years linear power output warranty

1st year power degradation no more than **1%**

Subsequent annual power degradation no more than **0.40%**

12 years product workmanship warranty

30 years linear power output warranty

1st year power degradation no more than **1%**

Subsequent annual power degradation no more than **0.40%**

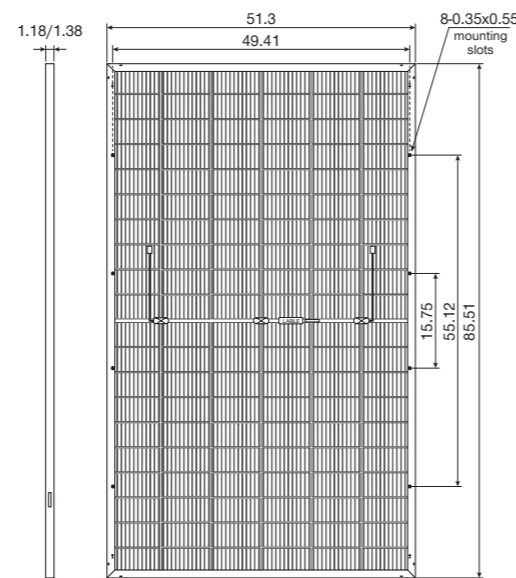
210 N-TOPCon Bifacial Module

Power Range
620W ~ 650W

Power Output Tolerance
0W ~ +5W

Maximum Efficiency
22.97%

(Unit: inch)



Electrical Performance Parameters | STC

Model Type	620C(HBD) 60(210)	625C(HBD) 60(210)	630C(HBD) 60(210)	635C(HBD) 60(210)	640C(HBD) 60(210)	645C(HBD) 60(210)	650C(HBD) 60(210)
Nominal Max. Power P _{max} (W)	620	625	630	635	640	645	650
Max. Power Voltage V _{mp} (V)	35.70	35.91	36.11	36.33	36.54	36.74	36.94
Max. Power Current I _{mp} (A)	17.37	17.41	17.45	17.48	17.52	17.56	17.60
Open Circuit Voltage V _{oc} (V)	43.53	43.74	43.95	44.16	44.37	44.58	44.79
Short Circuit Current I _{sc} (A)	18.18	18.22	18.26	18.30	18.34	18.38	18.42
Module Efficiency (%)	21.91	22.08	22.26	22.44	22.61	22.79	22.97
Power Output Tolerance (W)	0~+5W						

* STC: Irradiance 1000W/m², Cell Temperature 77°F, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Electrical Performance Parameters | NMOT

Model Type	620C(HBD) 60(210)	625C(HBD) 60(210)	630C(HBD) 60(210)	635C(HBD) 60(210)	640C(HBD) 60(210)	645C(HBD) 60(210)	650C(HBD) 60(210)
Nominal Max. Power P _{max} (W)	474	478	482	486	490	494	498
Max. Power Voltage V _{mp} (V)	33.62	33.83	34.04	34.25	34.46	34.67	34.88
Max. Power Current I _{mp} (A)	14.10	14.13	14.16	14.19	14.22	14.25	14.28
Open Circuit Voltage V _{oc} (V)	41.15	41.36	41.58	41.79	42.01	42.22	42.44
Short Circuit Current I _{sc} (A)	14.65	14.69	14.73	14.77	14.81	14.85	14.89

* NMOT: Irradiance 800W/m², Cell Temperature 68°F, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance

Solar Cell Type	210mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	120pcs(6×20)
Module Dimension	85.51×51.3×1.38/1.18in
Weight	78.5lbs(1.38in) / 76.1lbs(1.18in)
Front Glass	0.08in, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , portrait 15.75in(+), 7.87in(-), landscape 55.12in(+), 55.12in(-) Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(1.38in) / 36pcs(1.18in)
Per Container(40'HQ)	558pcs(1.38in) / 648pcs(1.18in)

Temperature Characteristics

Nominal Module Operating Temperature	111.2±3.6°F
Temperature Coefficient (I _{sc})	+0.043%
Temperature Coefficient (V _{oc})	-0.25%
Temperature Coefficient (P _{max})	-0.30%

Maximum Parameters

Working Temperature	-40°F~+185°F
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	35A

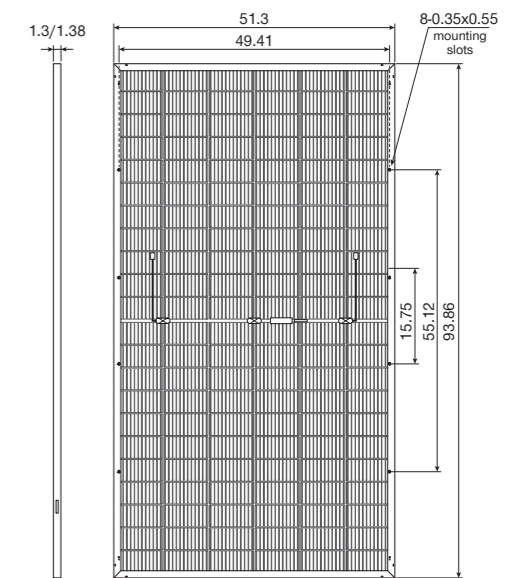
210 N-TOPCon Bifacial Module

Power Range
685W ~ 720W

Power Output Tolerance
0W ~ +5W

Maximum Efficiency
23.18%

(Unit: inch)



Electrical Performance Parameters | STC

Model Type	685C(HBD) 66(210)	690C(HBD) 66(210)	695C(HBD) 66(210)	700C(HBD) 66(210)	705C(HBD) 66(210)	710C(HBD) 66(210)	715C(HBD) 66(210)	720C(HBD) 66(210)
Nominal Max. Power P _{max} (W)	685	690	695	700	705	710	715	720
Max. Power Voltage V _{mp} (V)	39.42	39.64	39.86	40.07	40.29	40.51	40.72	40.94
Max. Power Current I _{mp} (A)	17.38	17.41	17.44	17.47	17.50	17.53	17.56	17.59
Open Circuit Voltage V _{oc} (V)	47.97	48.18	48.39	48.60	48.82	49.03	49.24	49.45
Short Circuit Current I _{sc} (A)	18.25	18.29	18.33	18.37	18.41	18.45	18.49	18.53
Module Efficiency (%)	22.05	22.21	22.37	22.53	22.70	22.86	23.02	23.18
Power Output Tolerance (W)	0~+5W							

* STC: Irradiance 1000W/m², Cell Temperature 77°F, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Electrical Performance Parameters | NMOT

Model Type	685C(HBD) 66(210)	690C(HBD) 66(210)	695C(HBD) 66(210)	700C(HBD) 66(210)	705C(HBD) 66(210)	710C(HBD) 66(210)	715C(HBD) 66(210)	720C(HBD) 66(210)
Nominal Max. Power P _{max} (W)	523	527	531	535	539	543	547	551
Max. Power Voltage V _{mp} (V)	37.05	37.25	37.45	37.66	37.86	38.06	38.26	38.46
Max. Power Current I _{mp} (A)	14.12	14.15	14.18	14.21	14.24	14.27	14.30	14.33
Open Circuit Voltage V _{oc} (V)	45.44	45.65	45.86	46.07	46.28	46.50	46.71	46.92
Short Circuit Current I _{sc} (A)	14.69	14.73	14.77	14.81	14.85	14.89	14.93	14.97

* NMOT: Irradiance 800W/m², Cell Temperature 68°F, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance

Solar Cell Type	210mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	132pcs(6×22)
Module Dimension	93.86×51.3×1.38/1.3in
Weight	84.2lbs(1.38in) / 83.3lbs(1.3in)
Front Glass	0.08in, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , portrait 15.75in(+), 7.87in(-), landscape 55.12in(+), 55.12in(-) Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(1.38in) / 33pcs(1.3in)
Per Container(40'HQ)	558pcs(1.38in) / 594apcs(1.3in)

Temperature Characteristics

Nominal Module Operating Temperature	111.2±3.6°F
Temperature Coefficient (I _{sc})	+0.043%
Temperature Coefficient (V _{oc})	-0.25%
Temperature Coefficient (P _{max})	-0.30%

Maximum Parameters

Working Temperature	-40°F~+185°F
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	35A

12 years product workmanship warranty

30 years linear power output warranty

1st year power degradation no more than **1%**

Subsequent annual power degradation no more than **0.40%**

12 years product workmanship warranty

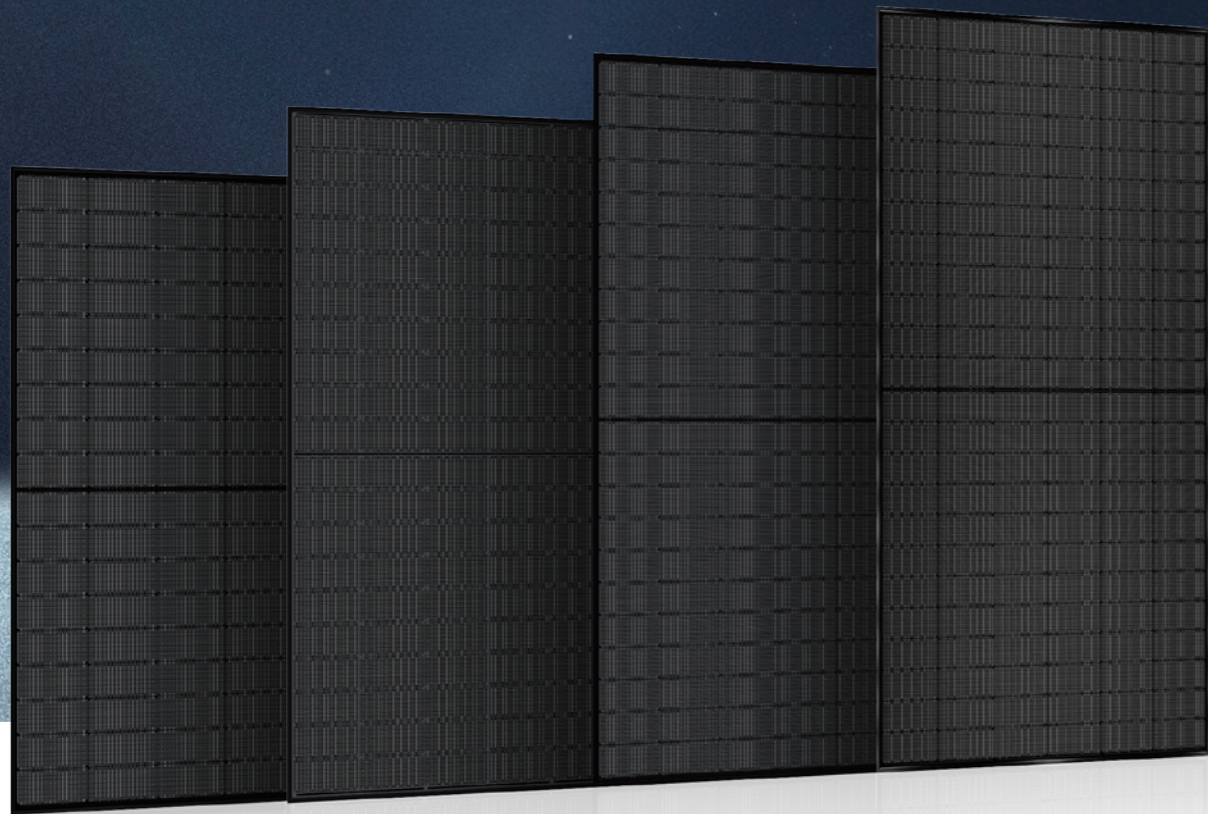
30 years linear power output warranty

1st year power degradation no more than **1%**

Subsequent annual power degradation no more than **0.40%**

Pur Black series

Aesthetic Design, Darker, Pure, Seamless Integration



Features and Benefits

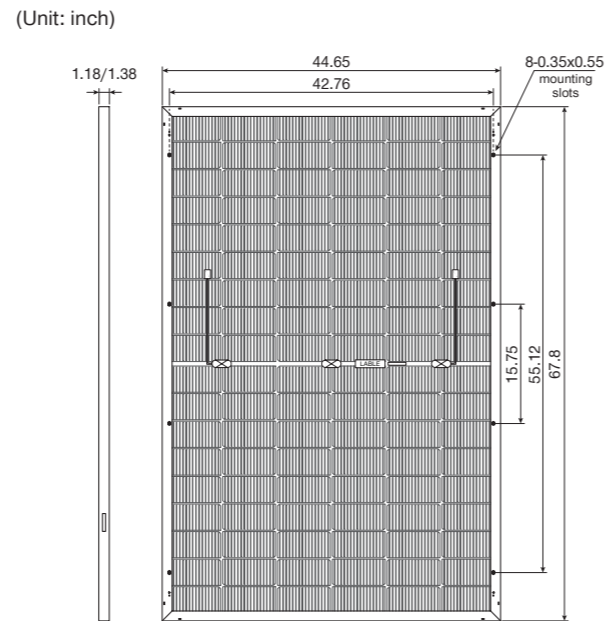
-  N-TOPCon brings 10-30% additional power generation comparing with conventional P-type module.
-  Highly-resistant Black Crystal Material, perfectly integrates into environments to bring premium technology and modernity to buildings.
-  Higher power output even under low-light environments like on cloudy or foggy days.
-  N-TOPCon solar cell has no LID naturally which can increase power generation.
-  Higher power generation under working conditions, thanks to passivating contact cell technology.
-  Higher bifaciality, higher power output and lower BOS cost.
-  More application scenes like BIPV, vertical installation, snowfield, high-humid, windy and dusty area.

182 Pure Black N-TOPCon Bifacial Module

Power Range
415W ~ 425W

Power Output Tolerance
0W ~ +5W

Maximum Efficiency
21.76%



Electrical Performance Parameters | STC

Model Type	415C(BBD) 54(182)	420C(BBD) 54(182)	425C(BBD) 54(182)
Nominal Max. Power P _{max} (W)	415	420	425
Max. Power Voltage V _{mp} (V)	31.00	31.23	31.46
Max. Power Current I _{mp} (A)	13.39	13.45	13.51
Open Circuit Voltage V _{oc} (V)	36.55	36.75	36.95
Short Circuit Current I _{sc} (A)	14.64	14.70	14.76
Module Efficiency (%)	21.25	21.51	21.76
Power Output Tolerance (W)	0~+5W		

* STC: Irradiance 1000W/m², Cell Temperature 77°F, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Electrical Performance Parameters | NMOT

Model Type	415C(BBD) 54(182)	420C(BBD) 54(182)	425C(BBD) 54(182)
Nominal Max. Power P _{max} (W)	311	315	319
Max. Power Voltage V _{mp} (V)	29.23	29.44	29.65
Max. Power Current I _{mp} (A)	10.64	10.70	10.76
Open Circuit Voltage V _{oc} (V)	34.10	34.28	34.47
Short Circuit Current I _{sc} (A)	11.87	11.92	11.97

* NMOT: Irradiance 800W/m², Cell Temperature 68°F, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	108pcs(6×18)
Module Dimension	67.8×44.65×1.38/1.18in
Weight	53.1lbs(1.38in) / 51.6lbs(1.18in)
Front Glass	0.08in, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy (Black)
Junction Box	IP68 rated
Cable	4mm ² , portrait 15.75in(+), 7.87in(-), landscape 55.12in(+), 55.12in(-) Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(1.38in) / 36pcs(1.18in)
Per Container(40'HQ)	806pcs(1.38in) / 936pcs(1.18in)

Temperature Characteristics

Nominal Module Operating Temperature	111.2±3.6°F
Temperature Coefficient (I _{sc})	+0.043%
Temperature Coefficient (V _{oc})	-0.25%
Temperature Coefficient (P _{max})	-0.30%

Maximum Parameters

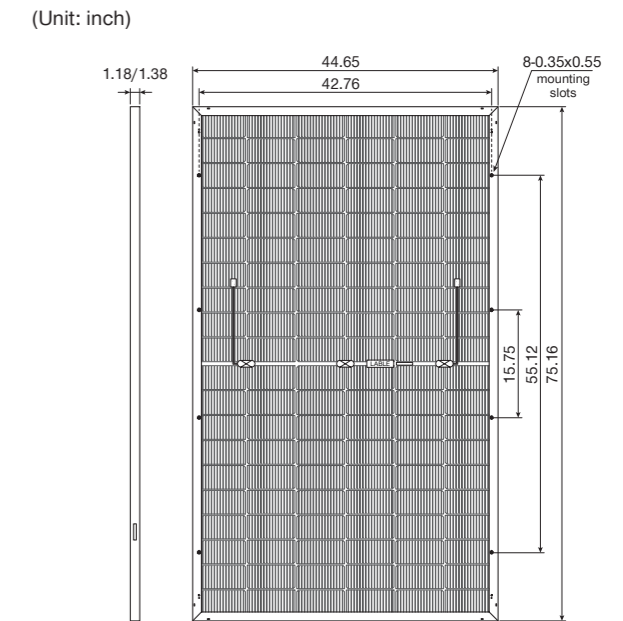
Working Temperature	-40°F~+185°F
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A

182 Pure Black N-TOPCon Bifacial Module

Power Range
465W ~ 475W

Power Output Tolerance
0W ~ +5W

Maximum Efficiency
21.94%



Electrical Performance Parameters | STC

Model Type	465C(BBD) 60(182)	470C(BBD) 60(182)	475C(BBD) 60(182)
Nominal Max. Power P _{max} (W)	465	470	475
Max. Power Voltage V _{mp} (V)	34.63	34.85	35.06
Max. Power Current I _{mp} (A)	13.43	13.49	13.55
Open Circuit Voltage V _{oc} (V)	41.22	41.42	41.62
Short Circuit Current I _{sc} (A)	14.52	14.58	14.64
Module Efficiency (%)	21.48	21.71	21.94
Power Output Tolerance (W)	0~+5W		

* STC: Irradiance 1000W/m², Cell Temperature 77°F, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Electrical Performance Parameters | NMOT

Model Type	465C(BBD) 60(182)	470C(BBD) 60(182)	475C(BBD) 60(182)
Nominal Max. Power P _{max} (W)	349	353	357
Max. Power Voltage V _{mp} (V)	32.68	32.87	33.06
Max. Power Current I _{mp} (A)	10.68	10.74	10.80
Open Circuit Voltage V _{oc} (V)	38.73	38.92	39.11
Short Circuit Current I _{sc} (A)	11.81	11.86	11.91

* NMOT: Irradiance 800W/m², Cell Temperature 68°F, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	120pcs(6×20)
Module Dimension	75.16×44.65×1.38/1.18in
Weight	59.3lbs(1.38in) / 56.7lbs(1.18in)
Front Glass	0.08in, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy (Black)
Junction Box	IP68 rated
Cable	4mm ² , portrait 15.75in(+), 7.87in(-), landscape 55.12in(+), 55.12in(-) Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(1.38in) / 36pcs(1.18in)
Per Container(40'HQ)	744pcs(1.38in) / 864pcs(1.18in)

Temperature Characteristics

Nominal Module Operating Temperature	111.2±3.6°F
Temperature Coefficient (I _{sc})	+0.043%
Temperature Coefficient (V _{oc})	-0.25%
Temperature Coefficient (P _{max})	-0.30%

Maximum Parameters

Working Temperature	-40°F~+185°F
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A

12 years product workmanship warranty

30 years linear power output warranty

1st year power degradation no more than **1%**

Subsequent annual power degradation no more than **0.40%**

12 years product workmanship warranty

30 years linear power output warranty

1st year power degradation no more than **1%**

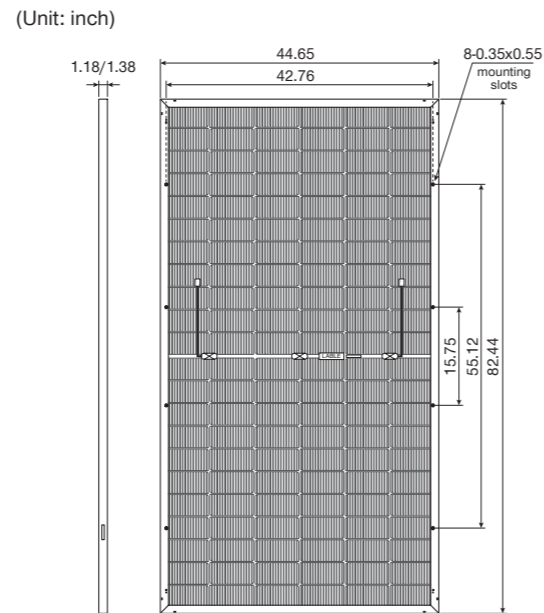
Subsequent annual power degradation no more than **0.40%**

182 Pure Black N-TOPCon Bifacial Module

Power Range
515W ~ 525W

Power Output Tolerance
0W ~ +5W

Maximum Efficiency
22.11%



Electrical Performance Parameters | STC

Model Type	515C(BBD) 66(182)	520C(BBD) 66(182)	525C(BBD) 66(182)
Nominal Max. Power P _{max} (W)	515	520	525
Max. Power Voltage V _{mp} (V)	38.26	38.46	38.66
Max. Power Current I _{mp} (A)	13.47	13.53	13.59
Open Circuit Voltage V _{oc} (V)	45.89	46.09	46.29
Short Circuit Current I _{sc} (A)	14.40	14.46	14.52
Module Efficiency (%)	21.69	21.90	22.11
Power Output Tolerance (W)	0~+5W		

* STC: Irradiance 1000W/m², Cell Temperature 77°F, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Electrical Performance Parameters | NMOT

Model Type	515C(BBD) 66(182)	520C(BBD) 66(182)	525C(BBD) 66(182)
Nominal Max. Power P _{max} (W)	386	390	394
Max. Power Voltage V _{mp} (V)	36.01	36.18	36.35
Max. Power Current I _{mp} (A)	10.72	10.78	10.84
Open Circuit Voltage V _{oc} (V)	43.36	43.55	43.74
Short Circuit Current I _{sc} (A)	11.65	11.70	11.75

* NMOT: Irradiance 800W/m², Cell Temperature 68°F, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	132pcs(6x22)
Module Dimension	82.44×44.65×1.38/1.18in
Weight	65.3lbs(1.38in) / 62.6lbs(1.18in)
Front Glass	0.08in, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy (Black)
Junction Box	IP68 rated
Cable	4mm ² , portrait 15.75in(+), 7.87in(-), landscape 55.12in(+), 55.12in(-) Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(1.38in) / 36pcs(1.18in)
Per Container(40'HQ)	682pcs(1.38in) / 792pcs(1.18in)

Temperature Characteristics

Nominal Module Operating Temperature	111.2±3.6°F
Temperature Coefficient (I _{sc})	+0.043%
Temperature Coefficient (V _{oc})	-0.25%
Temperature Coefficient (P _{max})	-0.30%

Maximum Parameters

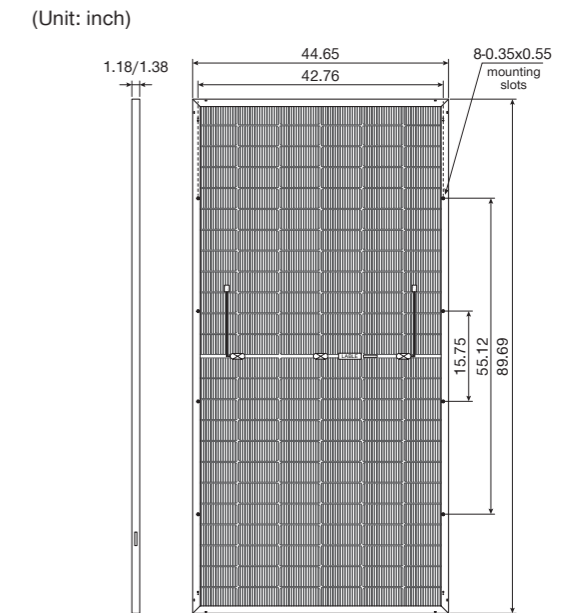
Working Temperature	-40°F~+185°F
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A

182 Pure Black N-TOPCon Bifacial Module

Power Range
560W ~ 575W

Power Output Tolerance
0W ~ +5W

Maximum Efficiency
22.26%



Electrical Performance Parameters | STC

Model Type	560C(BBD) 72(182)	565C(BBD) 72(182)	570C(BBD) 72(182)	575C(BBD) 72(182)
Nominal Max. Power P _{max} (W)	560	565	570	575
Max. Power Voltage V _{mp} (V)	41.90	42.05	42.20	42.35
Max. Power Current I _{mp} (A)	13.37	13.44	13.51	13.58
Open Circuit Voltage V _{oc} (V)	50.33	50.53	50.73	50.92
Short Circuit Current I _{sc} (A)	14.17	14.23	14.30	14.36
Module Efficiency (%)	21.68	21.87	22.07	22.26
Power Output Tolerance (W)	0~+5W			

* STC: Irradiance 1000W/m², Cell Temperature 77°F, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Electrical Performance Parameters | NMOT

Model Type	560C(BBD) 72(182)	565C(BBD) 72(182)	570C(BBD) 72(182)	575C(BBD) 72(182)
Nominal Max. Power P _{max} (W)	421	425	429	433
Max. Power Voltage V _{mp} (V)	39.47	39.58	39.69	39.80
Max. Power Current I _{mp} (A)	10.67	10.74	10.81	10.88
Open Circuit Voltage V _{oc} (V)	47.80	47.99	48.18	48.37
Short Circuit Current I _{sc} (A)	11.44	11.49	11.53	11.58

* NMOT: Irradiance 800W/m², Cell Temperature 68°F, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	144pcs(6×24)
Module Dimension	89.69×44.65×1.38/1.18in
Weight	71.2lbs(1.38in) / 68.6lbs(1.18in)
Front Glass	0.08in, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy (Black)
Junction Box	IP68 rated
Cable	4mm ² , portrait 15.75in(+), 7.87in(-), landscape 55.12in(+), 55.12in(-) Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(1.38in) / 36pcs(1.18in)
Per Container(40'HQ)	620pcs(1.38in) / 720pcs(1.18in)

Temperature Characteristics

Nominal Module Operating Temperature	111.2±3.6°F
Temperature Coefficient (I _{sc})	+0.043%
Temperature Coefficient (V _{oc})	-0.25%
Temperature Coefficient (P _{max})	-0.30%

Maximum Parameters

Working Temperature	-40°F~+185°F
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A

12 years product workmanship warranty

30 years linear power output warranty

1st year power degradation no more than **1%**

Subsequent annual power degradation no more than **0.40%**

12 years product workmanship warranty

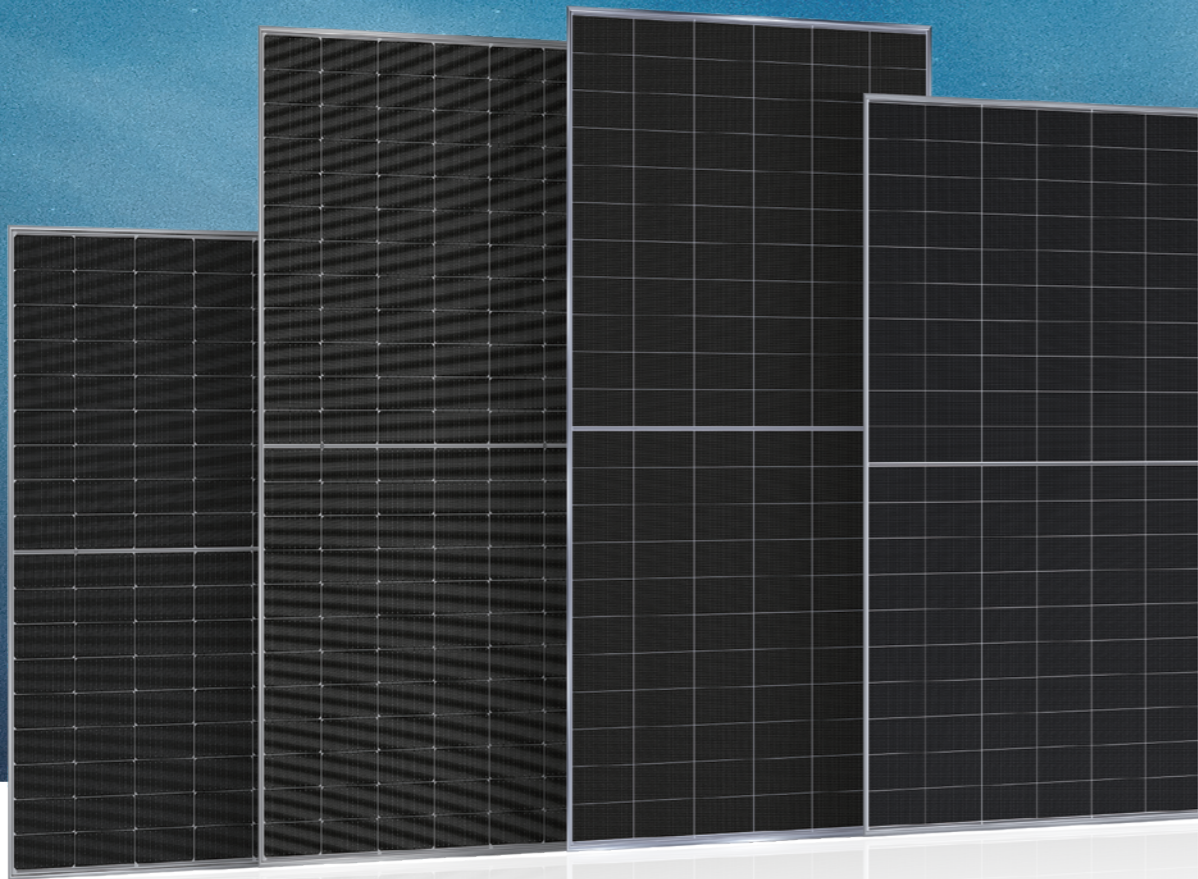
30 years linear power output warranty

1st year power degradation no more than **1%**

Subsequent annual power degradation no more than **0.40%**

P-type series


Hardcore Energy, Reliable Technology



Features and Benefits

- 

The application of multi-busbar (MBB) half-cut cell technology brings stronger resistance to shade and lower risk of hot spot.
- 

By series and parallel design, to reduce the series RS and achieve higher power output and lower BOS cost.
- 

Strict control on raw materials and process optimization of high efficiency PERC ensure better resistance against PID of PV module.
- 

Lower temperature coefficient and lower operating temperature can ensure higher power generation.
- 

Through harsh weathering tests of sand, dust, salt mist, ammonia, etc., to get stronger weather resistance of outdoor environment.
- 

Double sides power output to reach higher comprehensive efficiency and get more profit.
- 

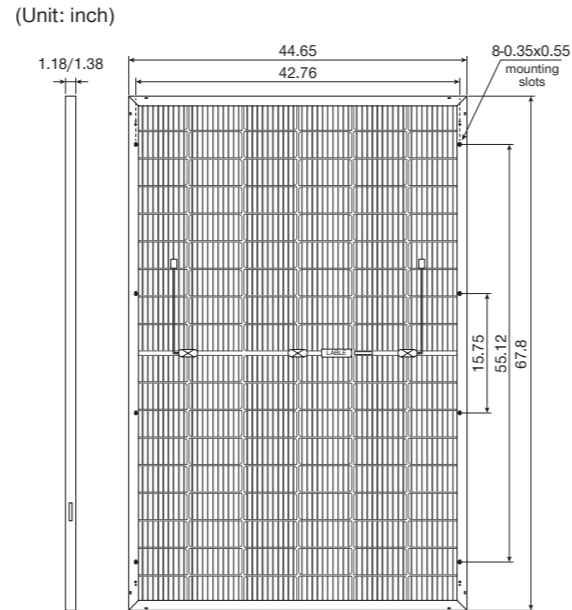
Lower oxygen and carbon content result in lower LID.

182 P-type Bifacial Module

Power Range
400W ~ 415W

Power Output Tolerance
0W ~ +5W

Maximum Efficiency
21.25%



Electrical Performance Parameters | STC

Model Type	400D(HBD) 54(182)	405D(HBD) 54(182)	410D(HBD) 54(182)	415D(HBD) 54(182)
Nominal Max. Power P _{max} (W)	400	405	410	415
Max. Power Voltage V _{mp} (V)	31.13	31.35	31.57	31.79
Max. Power Current I _{mp} (A)	12.85	12.92	12.99	13.06
Open Circuit Voltage V _{oc} (V)	36.96	37.08	37.20	37.34
Short Circuit Current I _{sc} (A)	13.74	13.81	13.88	13.95
Module Efficiency (%)	20.48	20.74	21.00	21.25
Power Output Tolerance (W)	0~+5W			

* STC: Irradiance 1000W/m², Cell Temperature 77°F, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Electrical Performance Parameters | NMOT

Model Type	400D(HBD) 54(182)	405D(HBD) 54(182)	410D(HBD) 54(182)	415D(HBD) 54(182)
Nominal Max. Power P _{max} (W)	275	282	287	292
Max. Power Voltage V _{mp} (V)	26.55	27.12	27.50	27.87
Max. Power Current I _{mp} (A)	10.36	10.40	10.44	10.48
Open Circuit Voltage V _{oc} (V)	34.62	34.74	34.86	35.00
Short Circuit Current I _{sc} (A)	11.09	11.15	11.20	11.26

* NMOT: Irradiance 800W/m², Cell Temperature 68°F, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance

Solar Cell Type	182mm Mono-crystalline (Half Cell)
Solar Cell Arrangement	108pcs(6×18)
Module Dimension	67.8×44.65×1.38/1.18in
Weight	53.1lbs(1.38in) / 51.6lbs(1.18in)
Front Glass	0.08in, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , portrait 15.75in(+), landscape 55.12in(+) 7.87in(-), 55.12in(-) Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(1.38in) / 36pcs(1.18in)
Per Container(40'HQ)	806pcs(1.38in) / 936pcs(1.18in)

Temperature Characteristics

Nominal Module Operating Temperature	111.2±3.6°F
Temperature Coefficient (I _{sc})	+0.048%
Temperature Coefficient (V _{oc})	-0.26%
Temperature Coefficient (P _{max})	-0.34%

Maximum Parameters

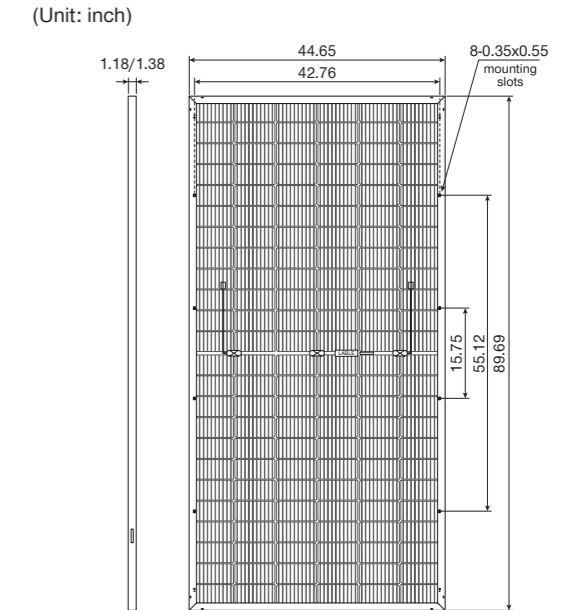
Working Temperature	-40°F~+185°F
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	25A

182 P-type Bifacial Module

Power Range
535W ~ 550W

Power Output Tolerance
0W ~ +5W

Maximum Efficiency
21.29%



Electrical Performance Parameters | STC

Model Type	535D(HBD) 72(182)	540D(HBD) 72(182)	545D(HBD) 72(182)	550D(HBD) 72(182)
Nominal Max. Power P _{max} (W)	535	540	545	550
Max. Power Voltage V _{mp} (V)	41.45	41.61	41.77	41.93
Max. Power Current I _{mp} (A)	12.91	12.98	13.05	13.12
Open Circuit Voltage V _{oc} (V)	49.40	49.52	49.64	49.78
Short Circuit Current I _{sc} (A)	13.80	13.87	13.94	14.01
Module Efficiency (%)	20.71	20.90	21.10	21.29
Power Output Tolerance (W)	0~+5W			

* STC: Irradiance 1000W/m², Cell Temperature 77°F, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Electrical Performance Parameters | NMOT

Model Type	535D(HBD) 72(182)	540D(HBD) 72(182)	545D(HBD) 72(182)	550D(HBD) 72(182)
Nominal Max. Power P _{max} (W)	405	408	411	414
Max. Power Voltage V _{mp} (V)	38.78	38.88	39.00	39.13
Max. Power Current I _{mp} (A)	10.42	10.47	10.52	10.57
Open Circuit Voltage V _{oc} (V)	47.18	47.37	47.56	47.75
Short Circuit Current I _{sc} (A)	11.15	11.21	11.26	11.31

* NMOT: Irradiance 800W/m², Cell Temperature 68°F, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance

Solar Cell Type	182mm Mono-crystalline (Half Cell)
Solar Cell Arrangement	144pcs(6×24)
Module Dimension	89.69×44.65×1.38/1.18in
Weight	71.2lbs(1.38in) / 68.8lbs(1.18in)
Front Glass	0.08in, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , portrait 15.75in(+), landscape 55.12in(+) 7.87in(-), 55.12in(-) Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(1.38in) / 36pcs(1.18in)
Per Container(40'HQ)	620pcs(1.38in) / 720pcs(1.18in)

Temperature Characteristics

Nominal Module Operating Temperature	111.2±3.6°F
Temperature Coefficient (I _{sc})	+0.048%
Temperature Coefficient (V _{oc})	-0.26%
Temperature Coefficient (P _{max})	-0.34%

Maximum Parameters

Working Temperature	-40°F~+185°F
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	25A

12 years product workmanship warranty

30 years linear power output warranty

1st year power degradation no more than **2%**

Subsequent annual power degradation no more than **0.45%**

12 years product workmanship warranty

30 years linear power output warranty

1st year power degradation no more than **2%**

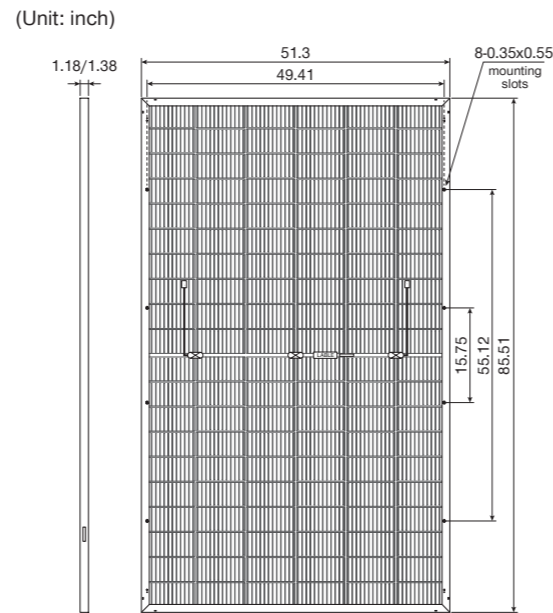
Subsequent annual power degradation no more than **0.45%**

210 P-type Bifacial Module

Power Range
585W ~ 605W

Power Output Tolerance
0W ~ +5W

Maximum Efficiency
21.38%



Electrical Performance Parameters STC						
Model Type		585D(HBD) 60(210)	590D(HBD) 60(210)	595D(HBD) 60(210)	600D(HBD) 60(210)	605D(HBD) 60(210)
Nominal Max. Power	P _{max} (W)	585	590	595	600	605
Max. Power Voltage	V _{mp} (V)	33.93	34.13	34.33	34.53	34.73
Max. Power Current	I _{mp} (A)	17.25	17.29	17.34	17.38	17.43
Open Circuit Voltage	V _{oc} (V)	41.20	41.40	41.60	41.80	42.00
Short Circuit Current	I _{sc} (A)	18.25	18.29	18.33	18.37	18.41
Module Efficiency	(%)	20.67	20.85	21.02	21.20	21.38
Power Output Tolerance	(W)	0~+5W				

* STC: Irradiance 1000W/m², Cell Temperature 77°F, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Electrical Performance Parameters NMOT						
Model Type		585D(HBD) 60(210)	590D(HBD) 60(210)	595D(HBD) 60(210)	600D(HBD) 60(210)	605D(HBD) 60(210)
Nominal Max. Power	P _{max} (W)	443	447	451	455	459
Max. Power Voltage	V _{mp} (V)	31.63	31.82	32.01	32.21	32.40
Max. Power Current	I _{mp} (A)	14.01	14.05	14.09	14.13	14.17
Open Circuit Voltage	V _{oc} (V)	38.80	39.00	39.20	39.40	39.60
Short Circuit Current	I _{sc} (A)	14.71	14.75	14.79	14.83	14.87

* NMOT: Irradiance 800W/m², Cell Temperature 68°F, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance	
Solar Cell Type	210mm Mono-crystalline (Half Cell)
Solar Cell Arrangement	120pcs(6×20)
Module Dimension	85.51×51.3×1.38/1.18in
Weight	78.5lbs(1.38in) / 74.3lbs(1.18in)
Front Glass	0.08in, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , portrait ^{15.75in(+)} _{7.87in(+)} , landscape ^{55.12in(+)} _{55.12in(-)} Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(1.38in) / 36pcs(1.18in)
Per Container(40'HQ)	558pcs(1.38in) / 648pcs(1.18in)

Temperature Characteristics	
Nominal Module Operating Temperature	111.2±3.6°F
Temperature Coefficient (I _{sc})	+0.048%
Temperature Coefficient (V _{oc})	-0.26%
Temperature Coefficient (P _{max})	-0.34%

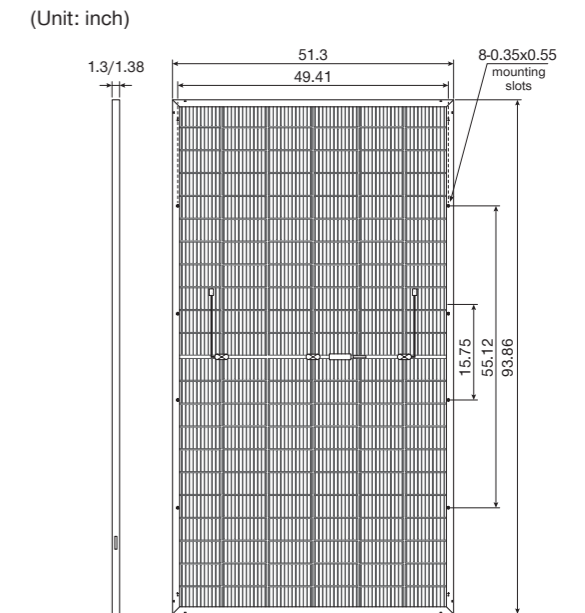
Maximum Parameters	
Working Temperature	-40°F ~ +185°F
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A

210 P-type Bifacial Module

Power Range
645W ~ 665W

Power Output Tolerance
0W ~ +5W

Maximum Efficiency
21.41%



Electrical Performance Parameters STC						
Model Type		645D(HBD) 66(210)	650D(HBD) 66(210)	655D(HBD) 66(210)	660D(HBD) 66(210)	665D(HBD) 66(210)
Nominal Max. Power	P _{max} (W)	645	650	655	660	665
Max. Power Voltage	V _{mp} (V)	37.43	37.63	37.83	38.03	38.23
Max. Power Current	I _{mp} (A)	17.24	17.28	17.32	17.36	17.40
Open Circuit Voltage	V _{oc} (V)	45.40	45.60	45.80	46.00	46.20
Short Circuit Current	I _{sc} (A)	18.30	18.34	18.38	18.42	18.46
Module Efficiency	(%)	20.76	20.92	21.09	21.25	21.41
Power Output Tolerance	(W)	0~+5W				

* STC: Irradiance 1000W/m², Cell Temperature 77°F, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Electrical Performance Parameters NMOT						
Model Type		645D(HBD) 66(210)	650D(HBD) 66(210)	655D(HBD) 66(210)	660D(HBD) 66(210)	665D(HBD) 66(210)
Nominal Max. Power	P _{max} (W)	488	492	496	500	504
Max. Power Voltage	V _{mp} (V)	34.84	35.04	35.22	35.42	35.62
Max. Power Current	I _{mp} (A)	14.02	14.06	14.08	14.12	14.16
Open Circuit Voltage	V _{oc} (V)	42.80	43.00	43.20	43.40	43.60
Short Circuit Current	I _{sc} (A)	14.74	14.78	14.82	14.86	14.90

* NMOT: Irradiance 800W/m², Cell Temperature 68°F, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance	
Solar Cell Type	210mm Mono-crystalline (Half Cell)
Solar Cell Arrangement	132pcs(6×22)
Module Dimension	93.86×51.3×1.38/1.3in
Weight	84.2lbs(1.38in) / 83.3lbs(1.3in)
Front Glass	0.08in, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , portrait ^{15.75in(+)} _{7.87in(+)} , landscape ^{55.12in(+)} _{55.12in(-)} Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(1.38in) / 33pcs(1.3in)
Per Container(40'HQ)	558pcs(1.38in) / 594pcs(1.3in)

Temperature Characteristics	
Nominal Module Operating Temperature	111.2±3.6°F
Temperature Coefficient (I _{sc})	+0.048%
Temperature Coefficient (V _{oc})	-0.26%
Temperature Coefficient (P _{max})	-0.34%

Maximum Parameters	
Working Temperature	-40°F ~ +185°F
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A

12 years product workmanship warranty

30 years linear power output warranty

1st year power degradation no more than **2%**

Subsequent annual power degradation no more than **0.45%**

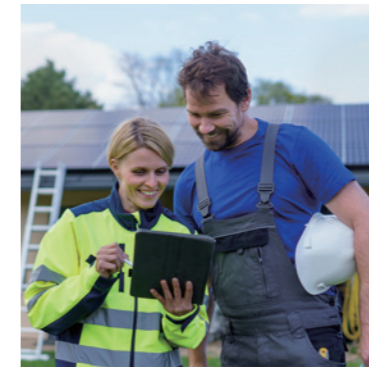
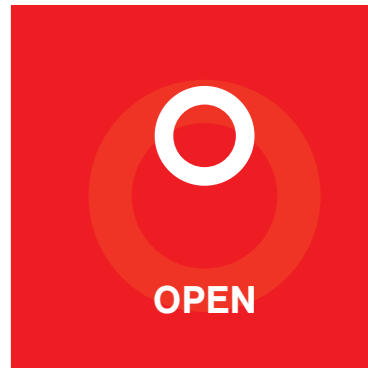
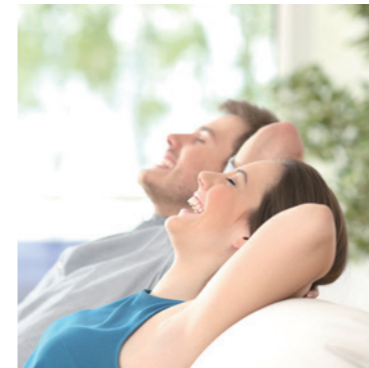
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We are here at your service.**