Renewable Energy

GPS Group
MONACO

570-590W

N-type TOPCon
Solar Module

22.83%
Max. Module Efficiency

10-30% Additional Power Generation

30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module.

ZERO LID (Light Induced Degradation)

N-type solar cell has no LID naturally which can increase power generation.

Higher Reliability

Adpoted SunEvo lastest S-TOPCo 2.0 technology, No polysilicon wrap around, Full electrical isolation, Zero leakage current; Much Safer for roof.

Better Weak Illumination Response

Higher power output even under low-light environments like on cloudy or foggy days.

Better Temperature Coefficient

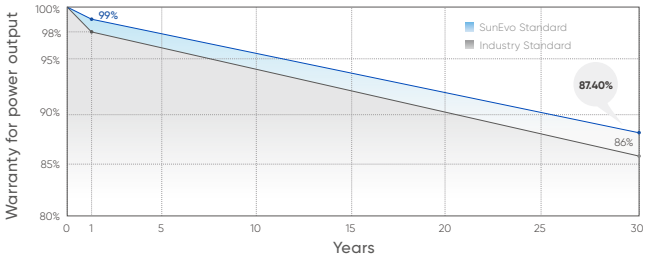
Higher power generation under working conditions, thanks to passivating contact cell technology.

Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt).
IEC62716 (Ammonia), IEC60068-2-68(Sand).
ISO 9001:2015/quality management system.
ISO 14001:2015/environmental management system.
ISO 45001:2018/occupation health safety management system.
ISO 50001:2011/energy management system.
IEC TS 62941-2016/PV industry quality management system.

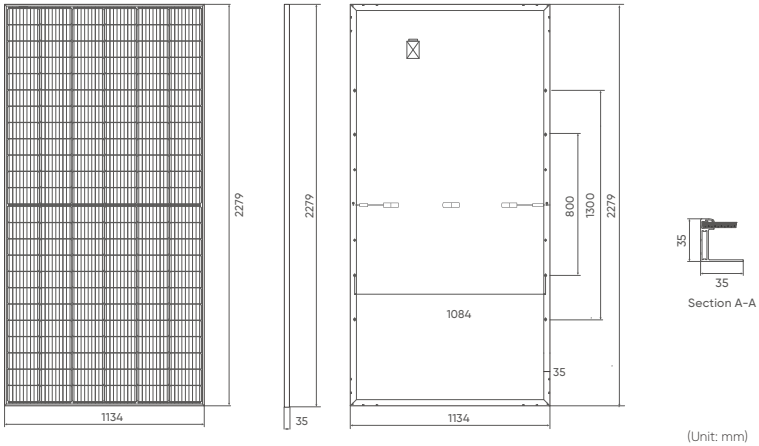
Quality Guarantee

25 year Materials Warranty **30 year** Power Warranty



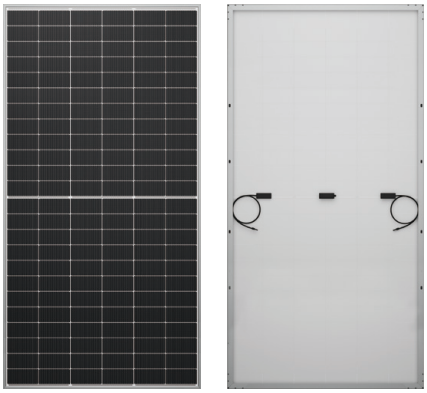
570-590W

Drawings



(Unit: mm)

Product Image



Mechanical Characteristics

Solar Cells	N-type Mono
No. of Cells	144 (6×24)
Dimensions	2279 × 1134 × 35mm
Weight	27.5kg
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4mm², 300mm (+) / 300mm (-), Length can be customized
Connectors	MC4 compatible
Mechanical Load Test	5400Pa
Packaging	31pcs/box, 155pcs/20'GP, 620pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0~+5W

Temperature Characteristics

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.30%°C
Temperature Coefficient of Voc	-0.25%°C
Temperature Coefficient of Isc	+0.046%°C

Electrical Parameters (STC*)

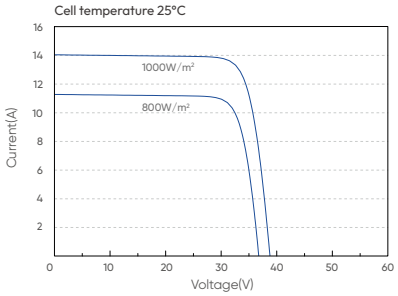
Module Type:	570	575	580	585	590
Maximum Power (Pmax/W)	570	575	580	585	590
Voltage at Maximum Power (Vmpp/V)	44.63	44.83	45.03	45.23	45.46
Current at Maximum Power (Impp/A)	12.78	12.83	12.90	12.94	13.00
Open Circuit Voltage (Voc/V)	52.40	52.60	52.80	53.00	53.20
Short Circuit Current (Isc/A)	13.42	13.46	13.50	13.54	13.58
Module Efficiency (%)	22.06	22.25	22.44	22.64	22.83

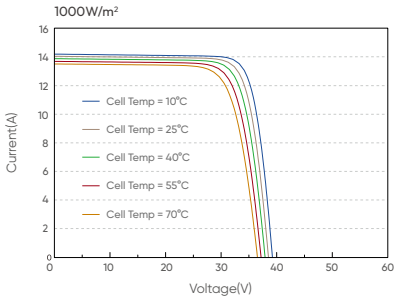
Electrical Parameters (NMOT*)

Maximum Power (Pmax)	431	435	439	443	447
Voltage at Maximum Power (Vmpp/V)	42.87	43.15	43.34	43.54	43.72
Current at Maximum Power (Impp/A)	10.06	10.08	10.12	10.16	10.21
Open Circuit Voltage (Voc/V)	49.80	50.03	50.22	50.41	50.60
Short Circuit Current (Isc/A)	10.56	10.59	10.63	10.66	10.69

1. Standard Test Conditions [STC]: irradiance 1000W/m²; AM 1.5; ambient temperature 25°C according to EN 60904-3;
2. Nominal Module Operating Temperature (NMOT): Irradiance 800W/m²; wind speed 1m/s , ambient temperature 20°C.
3. Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.

I-V Curve





695-715W

Bifacial HJT Half Cell
Double-glass Solar Module

23.02%
Max. Module Efficiency

HJT 2.0 Technology

Combining gettering process and single-side μc-Si technology to ensure higher cell efficiency and higher module power.

-0.26%/°C Pmax temperature coefficient

More stable power generation performance and even better in hot climate.

SMBB design with Half-Cut Technology

Shorter current transmission distance, less resistive loss and higher cell efficiency.

Up to 90% Bifaciality

Natrual symmetrical bifacial structure bringing more energy yield from the backside.

Sealing with PIB based sealant

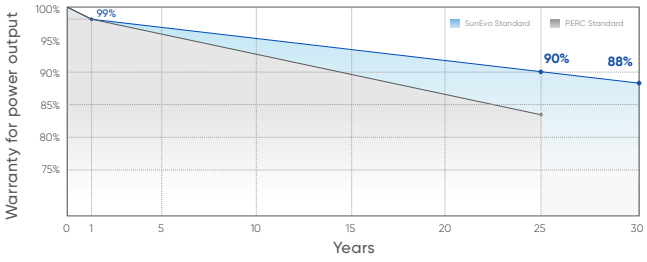
Stronger water resistance, greater air impermeability to extent module lifespan.

Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt).
IEC62716 (Ammonia), IEC60068-2-68(Sand).
ISO 9001:2015/quality management system.
ISO 14001:2015/environmental management system.
ISO 45001:2018/occupation health safety management system.
ISO 50001:2011/energy management system.
IEC TS 62941-2016/PV industry quality management system.

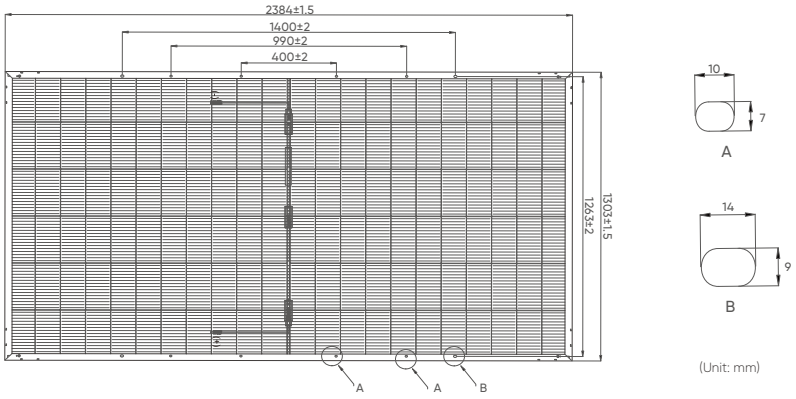
Quality Guarantee

25 year Materials Warranty **30 year** Power Warranty

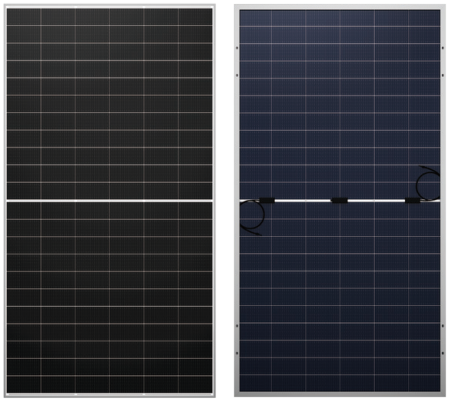


695-715W

Drawings



Product Image



Mechanical Characteristics

Solar Cells	HJT Mono 210×105mm
No. of Cells	132 (6×22)
Dimensions	2384 × 1303 × 35mm
Weight	38.7kg
Glass Thickness	(F) 2.0mm anti-reflective solar glass | (B) 2.0mm solar glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Output Cables	4mm², 300mm in length, length can be customized / UV resistant
Connectors	MC4 original /MC4 compatible
Mechanical Load Test	5400Pa
Packaging	31pcs/box, 558pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C ~ +85°C
Maximun System Voltage	DC 1500V (IEC)
Maximun Series Fuse Rating	30A
Power Tolerance	0~+5W
Bifaciality	85%±5%

Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44±2°C
Temperature Coefficient of Pmax	-0.26%°C
Temperature Coefficient of Voc	-0.24%°C
Temperature Coefficient of Isc	0.04%°C

Electrical Parameters (STC*)

Module Type:	695	700	705	710	715
Maximum Power (Pmax/W)	695	700	705	710	715
Module Efficiency (%)	22.37	22.53	22.70	22.86	23.02
Optimum Operating Voltage (Vmp/V)	41.95	42.10	42.25	42.39	42.54
Optimum Operating Current (Imp/A)	16.57	16.63	16.69	16.75	16.81
Open Circuit Voltage (Voc/V)	49.98	50.13	50.29	50.44	50.59
Short Circuit Current (Isc/A)	17.37	17.43	17.49	17.55	17.61

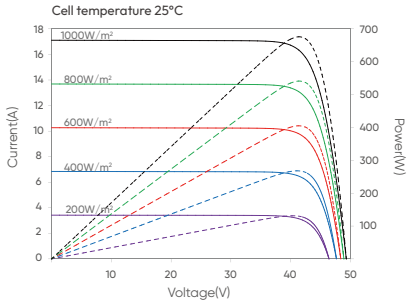
BSTC*

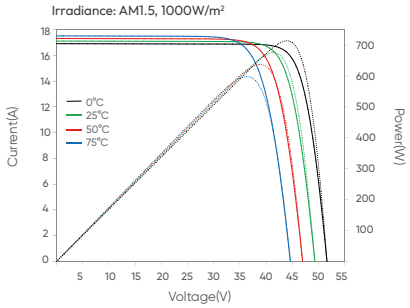
Maximum Power (Pmax/W)	765	770	775	780	785
Optimum Operating Voltage (Vmp/V)	41.95	42.10	42.25	42.39	42.54
Optimum Operating Current (Imp/A)	18.24	18.29	18.35	18.41	18.46
Open Circuit Voltage (Voc/V)	49.98	50.13	50.29	50.44	50.59
Short Circuit Current (Isc/A)	19.12	19.17	19.22	19.28	19.33

*STC: Irradiance 1000 W/m2, cell temperature 25°C, AM=1.5. Tolerance of Pmax is within +/- 3%.

*BSTC: Front side irradiation 1000W/m2, back side reflection irradiation 135W/m2, AM=1.5, ambient temperature 25°C.

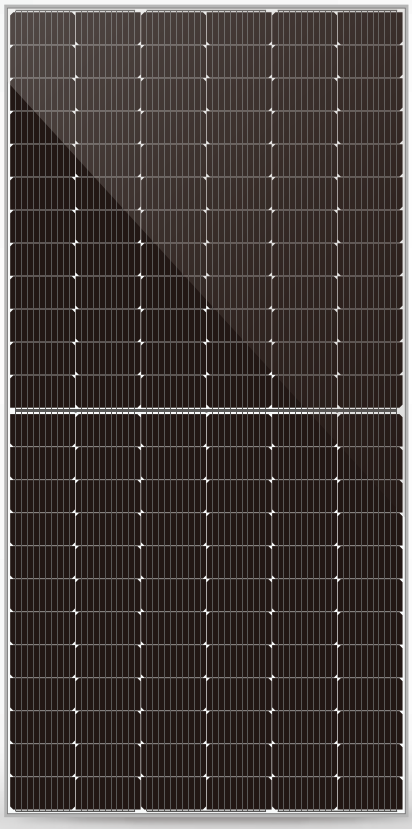
I-V Curve





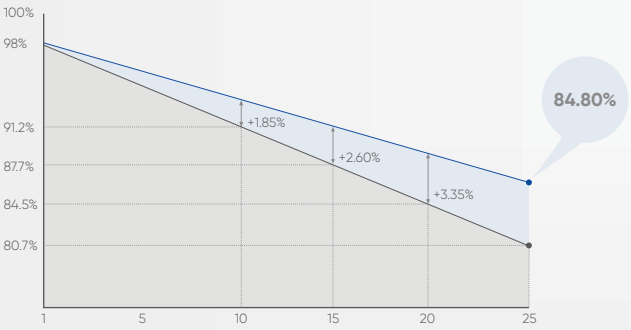
540-560W

PERC MBB Half Cell Monocrystalline Module



Quality Guarantee

12-Year Warranty for Materials and Processing
25-Year Warranty for Extra Linear Power Output



* Please refer to SunEvo standard warranty for details

High Power up to 560W

Large area cells based on 182mm silicon wafers,
High module effciency with high density interconnect technology

High Energy Yield

Excellent low irradiation performance,
Lower temperature coefficient and operating temperature

High Reliability

Resistant to harsh environments such as salt, ammonia, sand,
high temperature and high humidity areas

High Customer Value

Lowest guaranteed first year and annual degradation,
Compatible with existing mainstream system components

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730
ISO 9001: 2015: ISO Quality Management System
ISO 14001: 2015: ISO Environment Management System
ISO 45001: 2018: Occupational Health and Safety

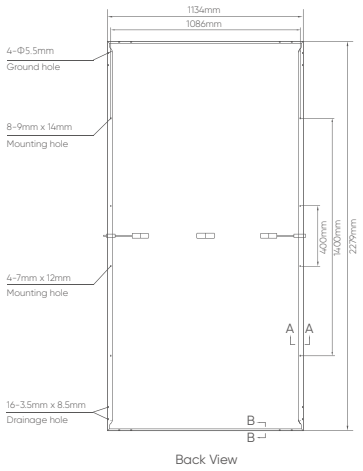
540-560W

Mechanical Data

Number of Cells	144 Cells (6x24)
Dimensions of Module L*W*H	2279 x 1134 x 35mm
Weight	26.9kg
Front Side Glass	High transparency solar glass 3.2mm
Backsheet	White
Frame	Black/Silver, anodized aluminium alloy
Junction Box	IP68 Rated, 3 Diodes
Cable	4.0mm², Portrait: 300mm / Landscape: 1400mm
Wind/Snow Load	2400Pa/5400Pa*
Connector	MC Compatible

* Please check the installation manual for more details

Module Dimension



Back View

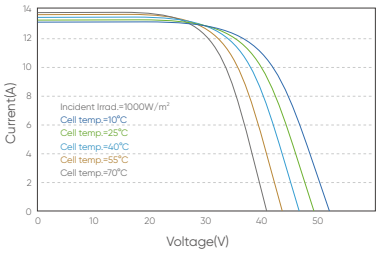
A-A B-B

Electrical Specification (STC*)

Maximum Power (Pmax/W)	540	545	550	555	560
Maximum Power Voltage (Vmp/V)	42.06	42.35	42.64	42.93	43.22
Maximum Power Current (Imp/A)	12.84	12.87	12.90	12.93	12.96
Open Circuit Voltage (Voc/V)	49.75	49.98	50.22	50.45	50.68
Short Circuit Current (Isc/A)	13.63	13.66	13.70	13.73	13.76
Module Efficiency (%)	21.1	21.3	21.5	21.7	21.9
Power Output Tolerance (W)			0~+5		

* Irradiance 1000W/m2, Cell Temperature 25°C, Air Mass 1.5

I-V Curve at Different Temperature (555W)

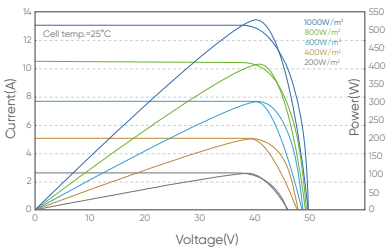


Electrical Specification (NMOT*)

Maximum Power (Pmax / W)	408.6	412.4	416.2	420.0	423.8
Maximum Power Voltage (Vmp / V)	39.01	39.28	39.55	39.82	40.09
Maximum Power Current (Imp / A)	10.47	10.50	10.52	10.55	10.57
Open Circuit Voltage (VOC / V)	46.96	47.18	47.40	47.62	47.85
Short Circuit Current (Isc / A)	10.92	10.94	10.97	10.99	11.02

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

I-V/P-V Curve at Different Irradiation (555W)



Maximum Ratings

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	25A

Temperature Ratings

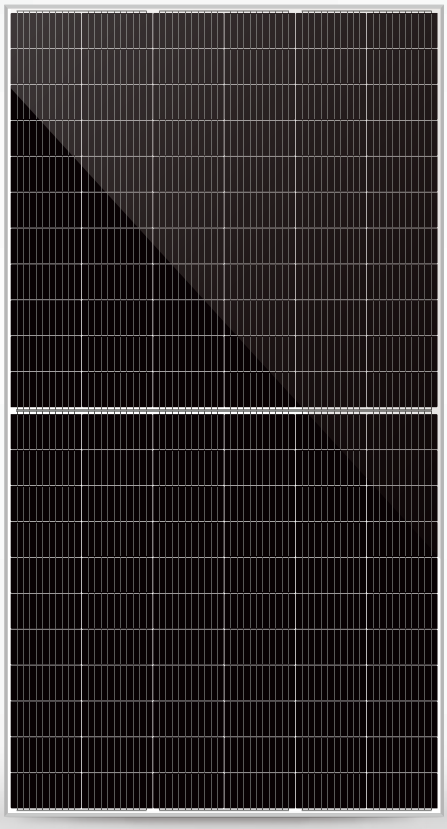
NMOT (Nominal Module Operating Temperature)	43±2°C
Temperature Coefficient of Isc	+0.05%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Pmax	-0.36%/°C

Packaging Configuration

Module per Box	31 pieces
Module per 40' Container	620 pieces

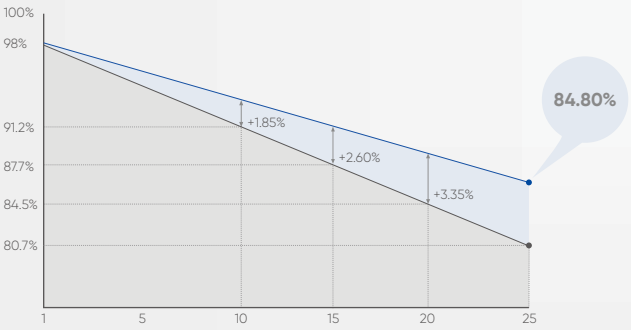
655-675W

PERC MBB Half Cell Monocrystalline Module



Quality Guarantee

12-Year Warranty for Materials and Processing
25-Year Warranty for Extra Linear Power Output



* Please refer to SunEvo standard warranty for details

High Power up to 675W

Large area cells based on 210mm silicon wafers,
High module effciency with high density interconnect technology

High Energy Yield

Excellent low irradiation performance,
Lower temperature coefficient and operating temperature

High Reliability

Resistant to harsh environments such as salt, ammonia, sand,
high temperature and high humidity areas

High Customer Value

Lowest guaranteed first year and annual degradation,
Compatible with existing mainstream system components

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730
ISO 9001: 2015: ISO Quality Management System
ISO 14001: 2015: ISO Environment Management System
ISO 45001: 2018: Occupational Health and Safety

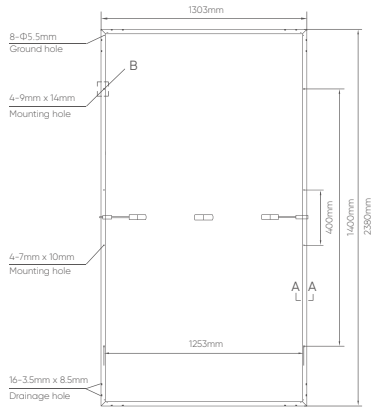
655-675W

Mechanical Data

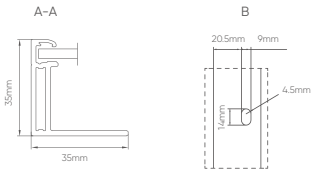
Number of Cells	132 Cells (6x22)
Dimensions of Module L*W*H	2384 x 1303 x 35mm
Weight	34.8kg
Front Side Glass	High transparency solar glass 3.2mm
Backsheet	White
Frame	Black/Silver, anodized aluminium alloy
Junction Box	IP68 Rated, 3 Diodes
Cable	4.0mm², Portrait: 350mm / Landscape: 1400mm
Wind/Snow Load	2400Pa/5400Pa*
Connector	MC Compatible

* Please check the installation manual for more details

Module Dimension



Back View

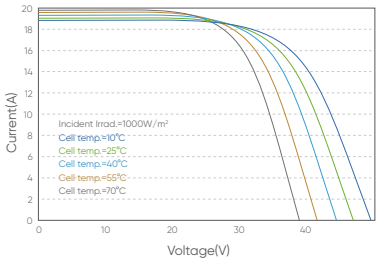


Electrical Specification (STC*)

Maximum Power (Pmax/W)	655	660	665	670	675
Maximum Power Voltage (Vmp/V)	37.60	37.80	38.00	38.20	38.40
Maximum Power Current (Imp/A)	17.42	17.46	17.50	17.54	17.58
Open Circuit Voltage (Voc/V)	45.40	45.60	45.80	46.00	46.20
Short Circuit Current (Isc/A)	18.50	18.55	18.60	18.65	18.70
Module Efficiency (%)	21.1	21.2	21.4	21.6	21.7
Power Output Tolerance (W)			0~+5		

* Irradiance 1000W/m2, Cell Temperature 25°C, Air Mass 1.5

I-V Curve at Different Temperature (675W)

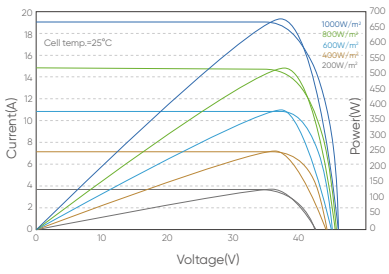


Electrical Specification (NMOT*)

Maximum Power (Pmax / W)	495.6	499.4	503.1	506.9	510.7
Maximum Power Voltage (Vmp / V)	35.08	35.26	35.45	35.64	35.82
Maximum Power Current (Imp / A)	14.13	14.16	14.19	14.22	14.26
Open Circuit Voltage (VOC / V)	42.77	42.96	43.14	43.33	43.52
Short Circuit Current (Isc / A)	14.92	14.96	15.00	15.04	15.08

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

I-V/P-V Curve at Different Irradiation (675W)



Maximum Ratings

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	30A

Temperature Ratings

NMOT (Nominal Module Operating Temperature)	43±2°C
Temperature Coefficient of Isc	+0.05%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Pmax	-0.36%/°C

Packaging Configuration

Module per Box	31 pieces
Module per 40' Container	558 pieces