ASOT SOLAR

ONE of the Solar Module Manufacturers
with **TOPCon** Cells

ASOT SOLAR PVT. LTD.

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ASOT SOLAR

Walking with **Light,**
Benefiting **Future Generation**

About ASOT

ASOT SOLAR, founded in 2019, has firmly established itself as a trusted player in the solar energy sector, specializing in solar product trading and project developing. With a strong commitment to sustain ability and a vision of harnessing the power of the sun for a greener future, we have successfully provided top-quality solar solutions to our clients over the years.

Marking a significant milestone in our journey, ASOT SOLAR is proudly ventures into the manufacturing of solar PV modules. Our state-of-the-art manufacturing facility is equipped with cutting-edge technology, ensuring the production of high-efficiency solar modules that meet international quality standards. We are committed to delivering sustainable, reliable, and cost-effective solar solutions that empower individuals and businesses to embrace clean energy.

We look forward to contributing to a cleaner and sustainable world with our innovative manufacturing capabilities. ASOT SOLAR looks forward to a brighter, greener future, driven by innovation and sustain ability.

Our Core Values

RESPECT
We always respect our employers, colleagues, communities, partners and our customers.

COMMITMENT
We are fully committed in heart and mind to the projects we do.

QUALITY
We deliver what we promise.

ETHICS
Not only our benefit but also the benefit of the customer is necessary.

EXPERT SERVICE
Customer satisfaction is not our job but our responsibility. We are always ready to give better service

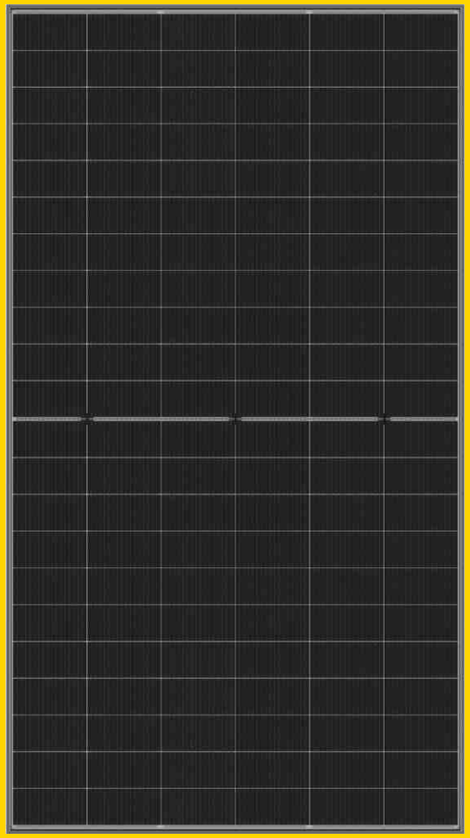
INNOVATION
We do every work with new innovation

RELATION
We create and maintain long-term relations with our clients.

LIFE LONG LEARNING
We are constantly learning and growing each day since 2015

TRANSPARENCY
Our works are 100% transparent with our customers.

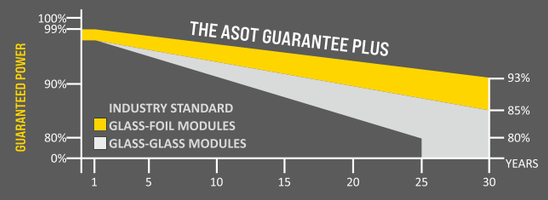
700 - 720 W N-TYPE
HJT, GLASS-GLASS BIFACIAL



- POWERFUL N-TYPE HETEROJUNCTION CELLS
- GLASS-GLASS : HIGHER MECHANICAL STABILITY AND FIRE SAFETY
- BIFACIAL : DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- REDUCTION OF BOS-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- SPECIAL EDGE SEALING
- ESPECIALLY DURABLE AND ROBUST

30 YEARS
Product Guarantee[1]

30 YEARS
Liner Performance Guarantee[1]



LONGLIFE TESTED

POWER PROOFED

SAFETY PROVIDED

EDGE-EALING

PERFORMANCE SURPLUS OF 0 Wp to 6.49 Wp

PID FREE LID FREE

BACK GLASS

HIGHER HEAR DISPENSING

CERTIFIED WARRANTOR

www.asotsolar.com

ASOT SOLAR

ELECTRICAL DATE AT STC

Rated power Pmmp [Wp]	700	705	710	715	720
Pmpp range to	706.49	711.49	716.49	721.49	726.49
Rated current impp [A]	16.29	16.34	16.39	16.44	16.49
Rated voltage Vmpp [V]	43.00	43.17	43.34	43.51	43.68
Short-circuit current Isc [A]	17.33	17.38	17.44	17.49	17.54
Open-circuit voltage Uoc [V]	50.59	50.79	50.99	51.19	51.39
Efficiency at STC up to	22.74%	22.90%	23.07%	23.23%	23.39%
Efficiency at 200 W/m²	22.32%	22.48%	22.64%	22.80%	22.96%

BIFACIAL GAIN* (E.G. 710 WP)

Backside power gain [Wp]	5%	10%	15%	20%	30%
Rated power Pmpp [Wp]	745.50	781.00	816.50	852.00	887.50
Rated Current Impp [A]	17.20	18.02	18.84	19.65	20.47
Rated voltage Vmpp [V]	43.34	43.34	43.34	43.35	43.35
Short-circuit current Isc [A]	14.62	15.32	16.01	16.71	17.40
Open-circuit voltage Uoc [V]	50.99	50.99	50.99	51.00	51.00

*depending on the reflection of the underlying surface
Specification as per STC (Standard test conditions): irrandiance 1000W/m2 | module temperature 25°C | Air Mass = 1.5

LIMITING VALUES

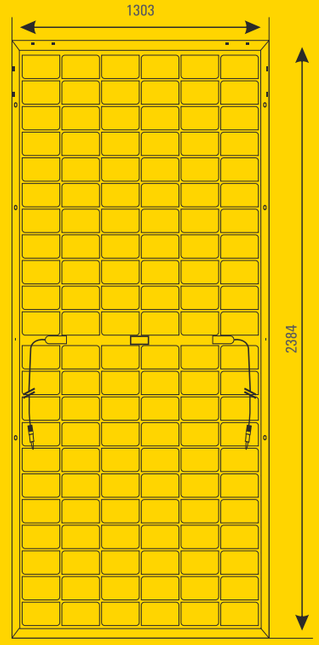
Max. system voltage | max. return current	1500 V | 30 A
Safety class | Fire safety class	II | C (according to IEC 61730)
Operating temperature	-40 up to 85 °C
Max. tested pressure load-/tensile2	5400 Pa / 2400 Pa

TEMPERATURE COEFFICIENT

Temperature coefficient [V] | [I] | [P]	-0.26%/°C | 0.04 %/°C | -0.24 %/°C

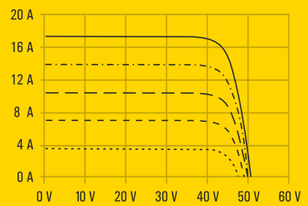
SPECIFICATIONS

Cells (matrix) | Wafer | Type	132 (6 X 22) I M12, Half-Cell I N-Type HJT
Module dimensions (L x W x H)3 | Weight	2384 mm x 1303 mm x 35 mm I 38.7 kg
Bifaciality Factor5	Up to 88 %
Front-side glass	2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	2 mm tempered, highly transparent
Frame	Stable anodised aluminium frame
Embedding material	EVA / POE
Junction Box | Diodes	At least IP67 I 3 Schottky Diods
Cable	Symmetrical cable lengths > 1.4 m, 4mm² solar cable
Connectors	MC4 or equivalent with IP67

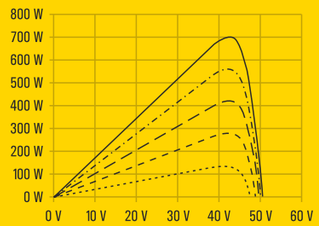


Electrical characteristics

UI -diagram e.g. 700 Wp



UP -diagram e.g. 700 Wp



200 W/m²
400 W/m²
600 W/m²
800 W/m²
1000 W/m²

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1 The specific warranty conditions are given under www.asotsolar.com
2 Horizontal mounted, for details please check mounting instruction
3 Tolerance L/W = +/-3 mm. H+/-2mm. the dimensions given in the order confirmation will be decisive
4 Bifaciality factor 85 % +/1 3%

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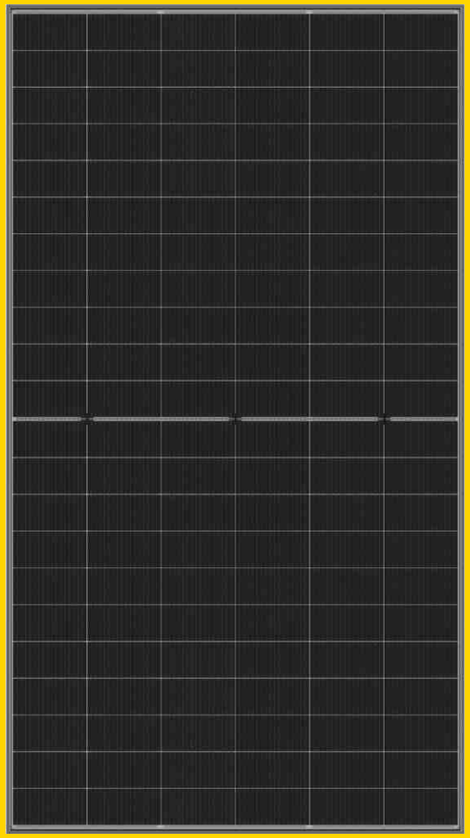
680 - 700 W N-TYPE
HJT, GLASS-GLASS BIFACIAL



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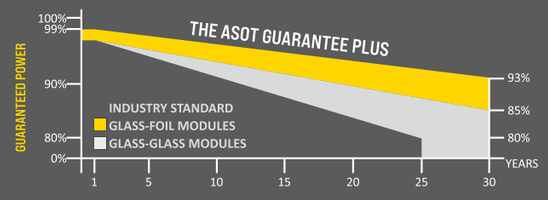
30 YEARS
Product Guarantee[1]

30 YEARS
Liner Performance Guarantee[1]



LONGLIFE TESTED

POWER PROOFED

SAFETY PROVIDED

EDGE-EALING

PERFORMANCE SURPLUS OF 0 Wp to 6.49 Wp

PID FREE LID FREE

BACK GLASS

HIGHER HEAR DISPENSING

CERTIFIED WARRANTOR

www.asotsolar.com

ASOT SOLAR

ELECTRICAL DATE AT STC

Rated power Pmmp [Wp]	680	685	690	695	700
Pmpp range to	686.49	691.49	696.49	701.49	706.49
Rated current impp [A]	16.07	16.13	16.18	16.23	16.29
Rated voltage Vmpp [V]	42.32	42.49	42.66	42.83	43.00
Short-circuit current Isc [A]	17.10	17.16	17.21	17.27	17.33
Open-circuit voltage Uoc [V]	49.79	49.99	50.19	50.39	50.59
Efficiency at STC up to	22.10%	22.26%	22.42%	22.58%	22.74%
Efficiency at 200 W/m²	21.67%	21.84%	22.00%	22.15%	22.32%

BIFACIAL GAIN* (E.G. 710 WP)

Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power Pmpp [Wp]	724.50	759.00	793.50	828.00	862.50
Rated Current Impp [A]	16.98	17.79	16.60	19.40	20.21
Rated voltage Vmpp [V]	42.66	42.66	42.66	42.67	42.67
Short-circuit current Isc [A]	14.44	15.12	15.81	16.49	17.18
Open-circuit voltage Uoc [V]	50.19	50.19	50.19	50.20	50.20

*depending on the reflection of the underlying surface
Specification as per STC (Standard test conditions): irrandiance 1000W/m2 | module temperature 25°C | Air Mass = 1.5

LIMITING VALUES

Max. system voltage | max. return current	1500 V | 30 A
Safety class | Fire safety class	II | A (according to IEC 61730)
Operating temperature	-40 up to 85 °C
Max. tested pressure load-/tensile2	5400 Pa / 2400 Pa

TEMPERATURE COEFFICIENT

Temperature coefficient [V] | [I] | [P]	-0.24%/°C | 0.04 %/°C | -0.26 %/°C

SPECIFICATIONS

Cells (matrix) | Wafer | Type	132 (6 X 22) I 210mm X 105mm
Module dimensions (L x W x H)3 | Weight	2384 mm x 1303 mm x 35 mm I 38.7 kg
Bifaciality Factor5	Up to 83 %
Front-side glass	2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	2 mm tempered, highly transparent
Frame	Stable anodised aluminium frame
Embedding material	EVA / POE
Junction Box | Diodes	At least IP67
Cable	Symmetrical cable lengths > 1.4 m and 1.4 m, 4mm² solar cable
Connectors	MC4 or equivalent with IP67

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2 Horizontal mounted, for details please check mounting instruction
3 Tolerance L/W = +/-3 mm. H+/-2mm. the dimensions given in the order confirmation will be decisive
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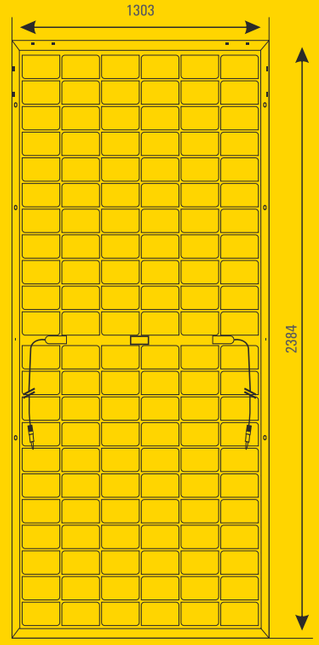
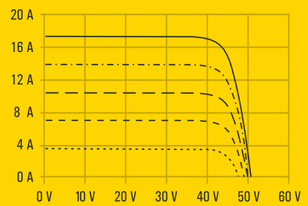
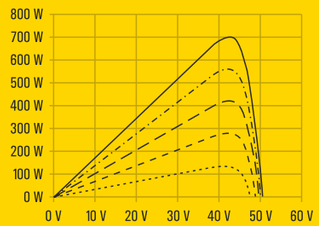


Electrical characteristics

UI -diagram e.g. 700 Wp



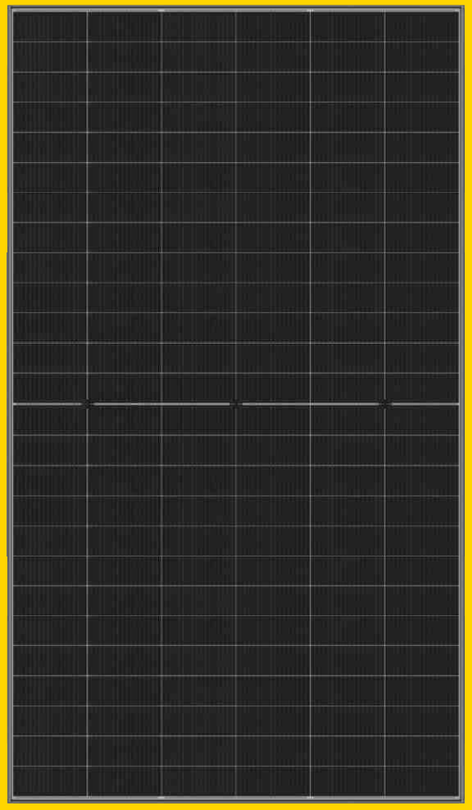
UP -diagram e.g. 700 Wp



200 W/m²
400 W/m²
600 W/m²
800 W/m²
1000 W/m²

610 - 630 W N-TYPE

TOPCon, GLASS-GLASS BIFACIAL



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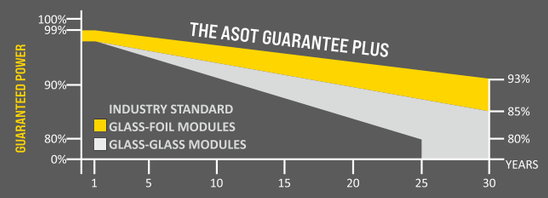
- SPECIAL EDGE SEALING
- ESPECIALLY DURABLE AND ROBUST

30 YEARS
Product Guarantee[1]

30 YEARS
Liner Performance Guarantee[1]



LONGLIFE TESTED

POWER PROOFED

SAFETY PROVIDED

EDGE-EALING

PERFORMANCE SURPLUS OF 0 Wp to 6.49 Wp

PID FREE LID FREE

BACK GLASS

HIGHER HEAR DISPENSING

CERTIFIED WARRANTOR

www.asotsolar.com

ASOT SOLAR

ELECTRICAL DATE AT STC

Rated Maximum Power (Pmax) [W]	610	615	620	625	630
Open Circuit Voltage (Voc) [V]	51.67	51.87	52.07	52.27	52.47
Maximum Power Voltage (Vmp) [V]	43.11	43.31	43.51	43.71	43.90
Short Circuit Current (Imp) [A]	15.01	15.06	15.11	15.16	15.21
Maximum Power Current (Imp) [A]	14.15	14.20	14.25	14.30	14.35
Module Efficiency [%]	21.8	22.00	22.2	22.4	22.5

BIFACIAL GAIN*

Rated power Pmpp [Wp]	659	664	670	675	680
Rated Current Impp [A]	15.28	15.34	15.39	15.44	15.50
Rated voltage Vmpp [V]	43.11	43.31	43.51	43.71	43.90
Short-circuit current Isc [A]	16.21	16.26	16.32	16.37	16.43
Open-circuit voltage Uoc [V]	51.67	51.87	52.07	52.27	52.47

*depending on the reflection of the underlying surface
Specification as per STC (Standard test conditions): irrandiance 1000W/m2 | module temperature 25°C | Air Mass = 1.5

LIMITING VALUES

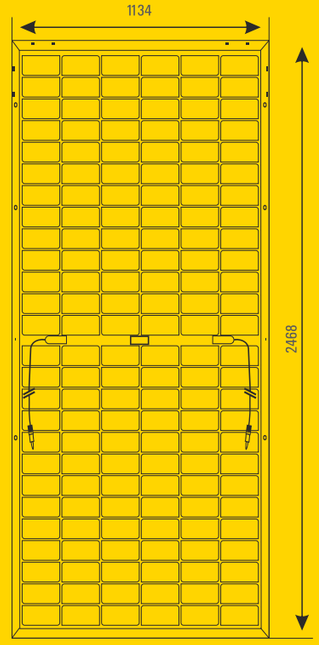
Max. system voltage | max. return current	1000 V or 1500 V | 30 A
Safety class | Fire safety class	II | C (according to IEC 61730)
Operating temperature	-40 up to 85 °C
Max. tested pressure load-/tensile2	5400 Pa / 2400 Pa

TEMPERATURE COEFFICIENT

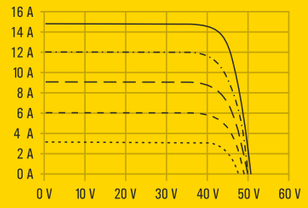
Temperature coefficient [V] | [I] | [P]	-0.25%/°C | 0.045 %/°C | -0.30 %/°C

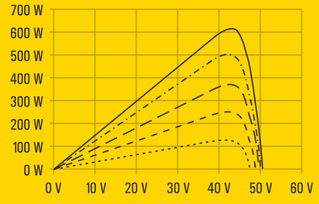
SPECIFICATIONS

Cells (matrix) | Wafer | Type	182-156 (6 X 26) I Half-Cell I N-Type TOPCon
Module dimensions (L x W x H)3 | Weight	2468 mm x 1134 mm x 30 mm I 32.7 kg
Bifaciality Factor5	Up to 80 %
Front-side glass	2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	2 mm tempered, highly transparent
Frame	Stable anodised aluminium frame
Embedding material	EVA / POE
Junction Box | Diodes	At least IP67 I 3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.4 m and 1.4 m, 4mm² solar cable
Connectors	MC4 or equivalent with IP67



Electrical characteristics





200 W/m²
400 W/m²
600 W/m²
800 W/m²
1000 W/m²

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4 Bifaciality factor 85 % +/1 3%

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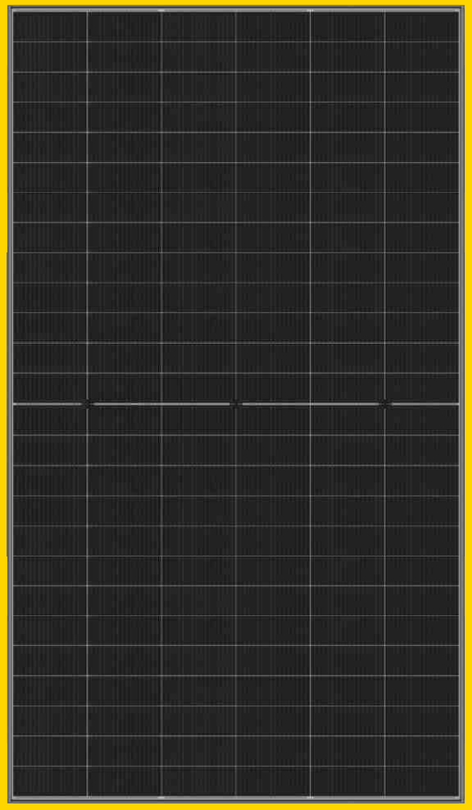
610 - 630 W N-TYPE

TOPCon, BIFACIAL



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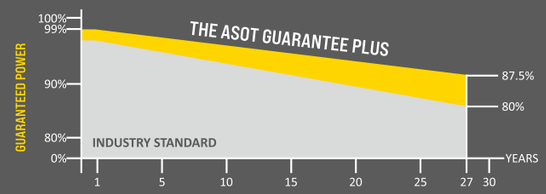
15 YEARS
Product Guarantee[1]

27 YEARS
Liner Performance Guarantee[1]



LONGLIFE TESTED

POWER PROOFED

SAFETY PROVIDED

EDGE-EALING

PERFORMANCE SURPLUS OF 0 Wp to 6.49 Wp

PID FREE LID FREE

CROSS-LINKING DEGREE TEST

HIGHER HEAR DISPENSING

CERTIFIED WARRANTOR

www.asotsolar.com

ASOT SOLAR

ELECTRICAL DATE AT STC

Rated Maximum Power (Pmax) [W]	610	615	620	625	630
Open Circuit Voltage (Voc) [V]	51.67	51.87	52.07	52.27	52.47
Maximum Power Voltage (Vmp) [V]	43.11	43.31	43.51	43.71	43.90
Short Circuit Current (Imp) [A]	15.01	15.06	15.11	15.16	15.21
Maximum Power Current (Imp) [A]	14.15	14.20	14.25	14.30	14.35
Module Efficiency [%]	21.8	22.00	22.2	22.4	22.5

BIFACIAL GAIN*

Rated power Pmpp [Wp]	659	664	670	675	680
Rated Current Impp [A]	15.28	15.34	15.39	15.44	15.50
Rated voltage Vmpp [V]	43.11	43.31	43.51	43.71	43.90
Short-circuit current Isc [A]	16.21	16.26	16.32	16.37	16.43
Open-circuit voltage Uoc [V]	51.67	51.87	52.07	52.27	52.47

*depending on the reflection of the underlying surface
Specification as per STC (Standard test conditions): irrandiance 1000W/m2 | module temperature 25°C | Air Mass = 1.5

LIMITING VALUES

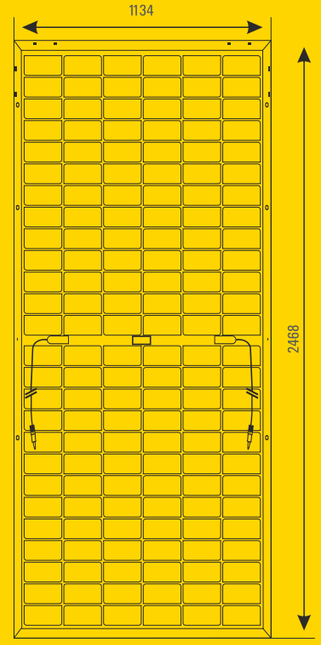
Max. system voltage | max. return current	1000 V or 1500 V | 30 A
Safety class | Fire safety class	II | C (according to IEC 61730)
Operating temperature	-40 up to 85 °C
Max. tested pressure load-/tensile2	5400 Pa / 2400 Pa

TEMPERATURE COEFFICIENT

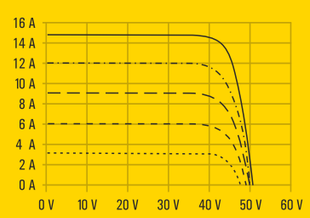
Temperature coefficient [V] | [I] | [P]	-0.25%/°C | 0.045 %/°C | -0.30 %/°C

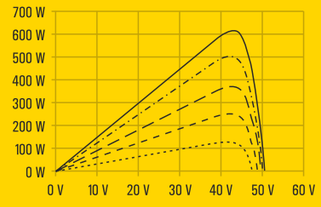
SPECIFICATIONS

Cells (matrix) | Wafer | Type	182-156 (6 X 26) I Half-Cell I N-Type TOPCon
Module dimensions (L x W x H)3 | Weight	2468 mm x 1134 mm x 30 mm I 32.7 kg
Bifaciality Factor5	Up to 80 %
Front-side glass	3.2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	Backsheet
Frame	Stable anodised aluminium frame
Embedding material	EVA / POE
Junction Box | Diodes	At least IP67 I 3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.4 m and 1.4 m, 4mm² solar cable
Connectors	MC4 or equivalent with IP67



Electrical characteristics





200 W/m²
400 W/m²
600 W/m²
800 W/m²
1000 W/m²

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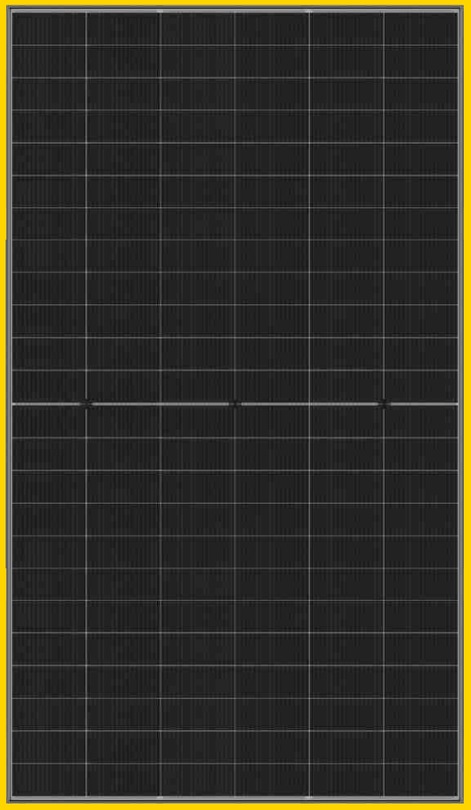
560 - 580 W N-TYPE

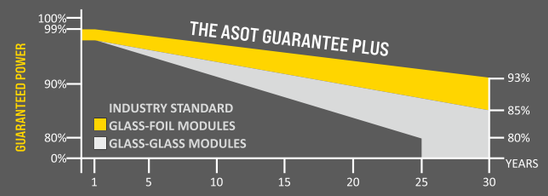
TOPCon, GLASS-GLASS BIFACIAL



- POWERFUL N-TYPE TOPCon CELLS
- GLASS-GLASS : HIGHER MECHANICAL STABILITY AND FIRE SAFETY
- BIFACIAL : DOUBLE-SIDED POWER GENERATION FOR MORE YIELD
- REDUCTION OF BOS-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- ESPECIALLY DURABLE AND ROBUST

30 YEARS
Product Guarantee[1]

30 YEARS
Liner Performance Guarantee[1]



LONGLIFE TESTED

POWER PROOFED

SAFETY PROVIDED

EDGE-EALING

PERFORMANCE SURPLUS OF 0 Wp to 6.49 Wp

PID FREE LID FREE

BACK GLASS

HIGHER HEAR DISPENSING

CERTIFIED WARRANTOR

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ASOT SOLAR

ELECTRICAL DATE AT STC

Rated power Pmmp [Wp]	560.00	565.00	570.00	575.00	580.00
Pmpp range to	566.49	571.49	576.49	581.49	586.49
Rated current impp [A]	13.33	13.37	13.41	13.45	13.48
Rated voltage Vmpp [V]	42.02	42.27	42.52	42.78	43.04
Short-circuit current Isc [A]	14.06	14.10	14.15	14.19	14.22
Open-circuit voltage Uoc [V]	50.87	51.17	51.48	51.79	52.11
Efficiency at STC up to	21.93%	22.12%	22.32%	22.51%	22.70%
Efficiency at 200 W/m2	21.45%	21.65%	21.84%	22.04%	22.22%

BIFACIAL GAIN* (E.G. 570 wp)

Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power Pmpp [Wp]	598.50	627.00	655.50	684.00	712.50
Rated Current Impp [A]	14.08	14.75	15.42	16.08	16.75
Rated voltage Vmpp [V]	42.52	42.52	42.52	42.53	42.53
Short-circuit current Isc [A]	14.86	15.57	16.27	16.98	17.69
Open-circuit voltage Uoc [V]	51.48	51.48	51.48	51.49	51.49

*depending on the reflection of the underlying surface
Specification as per STC (Standard test conditions): irrandiance 1000W/m2 | module temperature 25°C | Air Mass = 1.5

LIMITING VALUES

Max. system voltage | max. return current	1000 V or 1500 V | 30 A
Safety class | Fire safety class	II | C (according to IEC 61730)
Operating temperature	-40 up to 85 °C
Max. tested pressure load-/tensile2	5400 Pa / 2400 Pa

TEMPERATURE COEFFICIENT

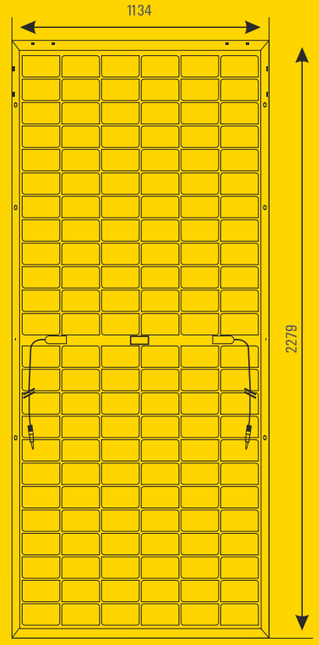
Temperature coefficient [V] | [I] | [P]	-0.25%/°C | 0.045 %/°C | -0.30 %/°C

SPECIFICATIONS

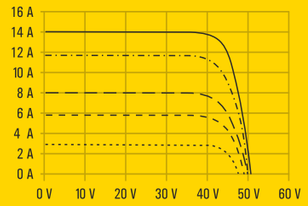
Cells (matrix) | Wafer | Type	144 (6 X 24) I M10, Half-Cell I N-Type TOPCon
Module dimensions (L x W x H)3 | Weight	2279 mm x 1134 mm x 30 mm I 32.7 kg
Bifaciality Factor5	Up to 80 %
Front-side glass	2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	2 mm tempered, highly transparent
Frame	Stable anodised aluminium frame
Embedding material	EVA / POE
Junction Box | Diodes	At least IP67 I 3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.4 m and 1.4 m, 4mm² solar cable
Connectors	MC4 or equivalent with IP67

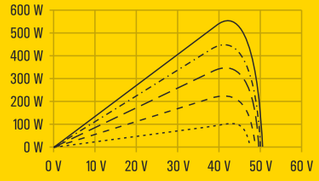
The specifications and average values can very slightly. Relevant is the corresponding data of the individual measurement. Specifications are subject to change without notics. Measurement tolerance depending on equipment: rated power +/- 3% other values +/- 10%.
1 The specific warranty conditions are given under www.asotsolar.com
2 Horizontal mounted, for details please check mounting instruction
3 Tolerance L/W = +/-3 mm. H+/-2mm. the dimensions given in the order confirmation will be decisive
4 Bifaciality factor 85 % +/1 3%

*In the absence of our own production data, we have drawn inspiration from industry-leading sources to create this brochure.



Electrical characteristics

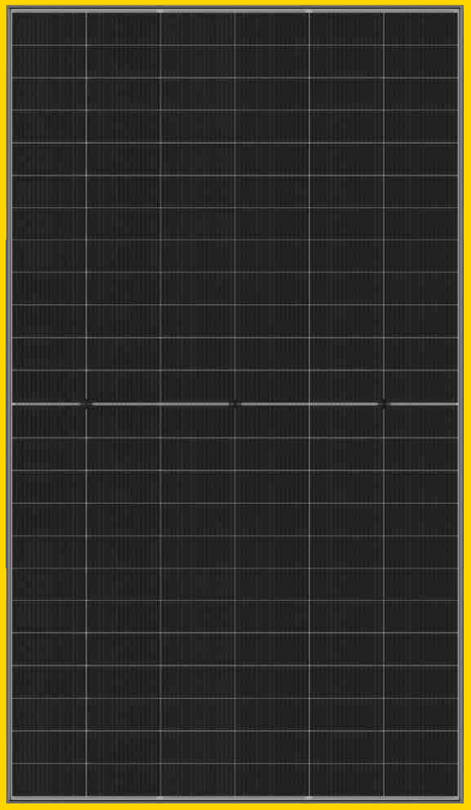




200 W/m²
400 W/m²
600 W/m²
800 W/m²
1000 W/m²

560 - 580 W N-TYPE

TOPCon, BIFACIAL



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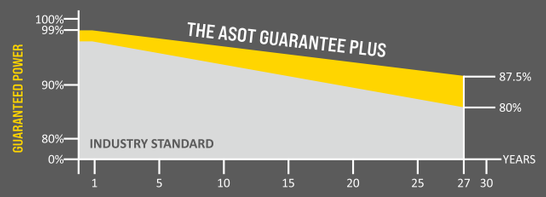
Product Guarantee[1]

Liner Performance Guarantee[1]



- LONGLIFE TESTED
- POWER PROOFED
- SAFETY PROVIDED
- EDGE-EALING
- PERFORMANCE SURPLUS OF 0 Wp to 6.49 Wp
- PID FREE LID FREE
- CROSS-LINKING DEGREE TEST
- HIGHER HEAR DISPENSING
- CERTIFIED WARRANTOR

www.asotsolar.com

ASOT SOLAR

ELECTRICAL DATE AT STC

Rated power Pmmp [Wp]	560.00	565.00	570.00	575.00	580.00
Pmpp range to	566.49	571.49	576.49	581.49	586.49
Rated current impp [A]	13.33	13.37	13.41	13.45	13.48
Rated voltage Vmpp [V]	42.02	42.27	42.52	42.78	43.04
Short-circuit current Isc [A]	14.06	14.10	14.15	14.19	14.22
Open-circuit voltage Uoc [V]	50.87	51.17	51.48	51.79	52.11
Efficiency at STC up to	21.93%	22.12%	22.32%	22.51%	22.70%
Efficiency at 200 W/m2	21.45%	21.65%	21.84%	22.04%	22.22%

BIFACIAL GAIN* (E.G. 570 wp)

Backside power gain [Wp]	5%	10%	15%	20%	25%
Rated power Pmpp [Wp]	598.50	627.00	655.50	684.00	712.50
Rated Current Impp [A]	14.08	14.75	15.42	16.08	16.75
Rated voltage Vmpp [V]	42.52	42.52	42.52	42.53	42.53
Short-circuit current Isc [A]	14.86	15.57	16.27	16.98	17.69
Open-circuit voltage Uoc [V]	51.48	51.48	51.48	51.49	51.49

*depending on the reflection of the underlying surface
Specification as per STC (Standard test conditions): irrandiance 1000W/m2 | module temperature 25°C | Air Mass = 1.5

LIMITING VALUES

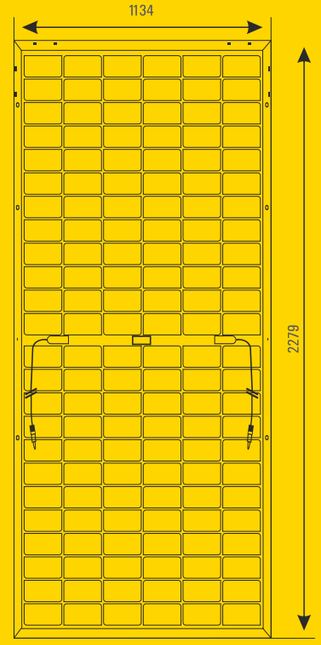
Max. system voltage | max. return current	1000 V or 1500 V | 30 A
Safety class | Fire safety class	II | C (according to IEC 61730)
Operating temperature	-40 up to 85 °C
Max. tested pressure load-/tensile2	5400 Pa / 2400 Pa

TEMPERATURE COEFFICIENT

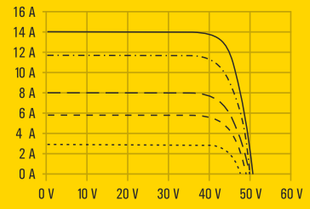
Temperature coefficient [V] | [I] | [P]	-0.25%/°C | 0.045 %/°C | -0.30 %/°C

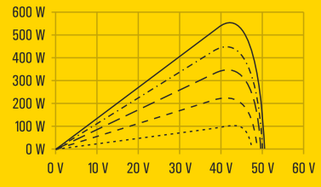
SPECIFICATIONS

Cells (matrix) | Wafer | Type	144 (6 X 24) I M10, Half-Cell I N-Type TOPCon
Module dimensions (L x W x H)3 | Weight	2279 mm x 1134 mm x 30 mm I 32.7 kg
Bifaciality Factor5	Up to 80 %
Front-side glass	3.2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	Backsheet
Frame	Stable anodised aluminium frame
Embedding material	EVA / POE
Junction Box | Diodes	At least IP67 I 3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.4 m and 1.4 m, 4mm² solar cable
Connectors	MC4 or equivalent with IP67



Electrical characteristics





200 W/m²
400 W/m²
600 W/m²
800 W/m²
1000 W/m²

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1 The specific warranty conditions are given under www.asotsolar.com
2 Horizontal mounted, for details please check mounting instruction
3 Tolerance L/W = +/-3 mm. H +/-2mm. the dimensions given in the order confirmation will be decisive
4 Bifaciality factor 85 % +/1 3%

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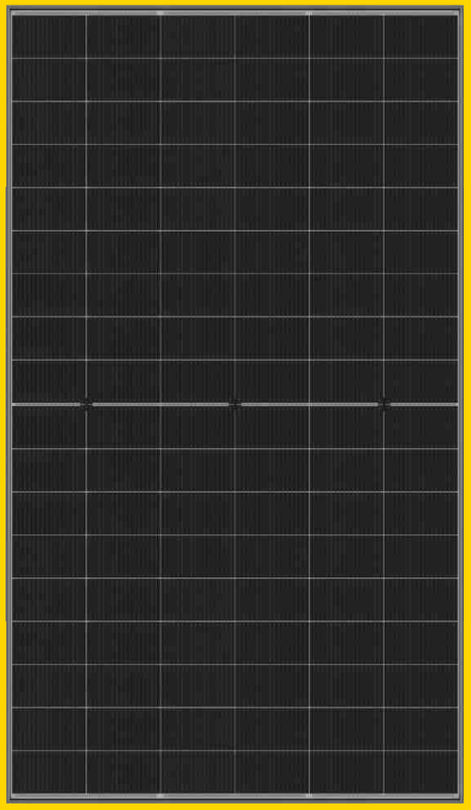
415 - 435 W N-TYPE

TOPCon, GLASS-GLASS BIFACIAL



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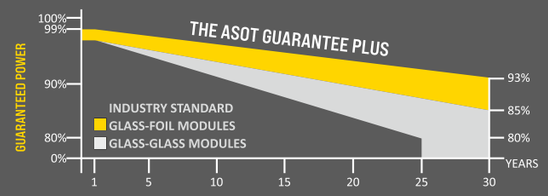
30 YEARS
Product Guarantee[1]

30 YEARS
Liner Performance Guarantee[1]



LONGLIFE TESTED

POWER PROOFED

SAFETY PROVIDED

EDGE-EALING

PERFORMANCE SURPLUS OF 0 Wp to 6.49 Wp

PID FREE LID FREE

BACK GLASS

HIGHER HEAR DISPENSING

CERTIFIED WARRANTOR

www.asotsolar.com

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ELECTRICAL DATE AT STC

Rated power Pmmp [Wp]	415	420	425	430	435
Pmpp range to	421.49	426.49	431.49	436.49	441.49
Rated current impp [A]	13.26	13.34	13.42	13.49	13.57
Rated voltage Vmpp [V]	31.32	31.51	31.70	31.89	32.08
Short-circuit current Isc [A]	13.99	14.07	14.16	14.23	14.31
Open-circuit voltage Uoc [V]	37.92	38.15	38.38	38.61	38.84
Efficiency at STC up to	21.58%	21.84%	22.10%	22.35%	22.61%
Efficiency at 200 W/m2	21.04%	21.30%	21.55%	21.80%	22.06%

BIFACIAL GAIN* (E.G. 570 wp)

Backside power gain [Wp]	5%	10%	15%	20%	30%
Rated power Pmpp [Wp]	441	462	483	504	525
Rated Current Impp [A]	14	14.66	15.33	15.99	16.66
Rated voltage Vmpp [V]	31.51	31.51	31.51	31.52	31.52
Short-circuit current Isc [A]	14.77	15.48	16.18	16.88	17.59
Open-circuit voltage Uoc [V]	38.15	38.15	38.15	38.16	38.16

*depending on the reflection of the underlying surface
Specification as per STC (Standard test conditions): irradiance 1000W/m2 | module temperature 25°C | Air Mass = 1.5

LIMITING VALUES

Max. system voltage | max. return current	1000 V or 1500 V | 30 A
Safety class | Fire safety class	II | A (according to IEC 61730)
Operating temperature	-40 up to 85 °C
Max. tested pressure load-/tensile2	5400 Pa / 2400 Pa

TEMPERATURE COEFFICIENT

Temperature coefficient [V] | [I] | [P]	-0.250%/°C | 0.045 %/°C | -0.319 %/°C

SPECIFICATIONS

Cells (matrix) | Wafer | Type	108 (6 X 18) I 182mm X 91mm I N-Type TOPCon
Module dimensions (L x W x H)3 | Weight	1722 mm x 1134 mm x 30 mm I 27 kg
Bifaciality Factor5	Up to 80 %
Front-side glass	2 mm tempered, highly transparent, anti-reflection solar glass
Back-side	2 mm tempered, highly transparent
Frame	Stable anodised aluminium frame
Embedding material	EVA / POE
Junction Box | Diodes	At least IP67 I 3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.4 m and 1.4 m, 4mm² solar cable
Connectors	MC4 or equivalent with IP67

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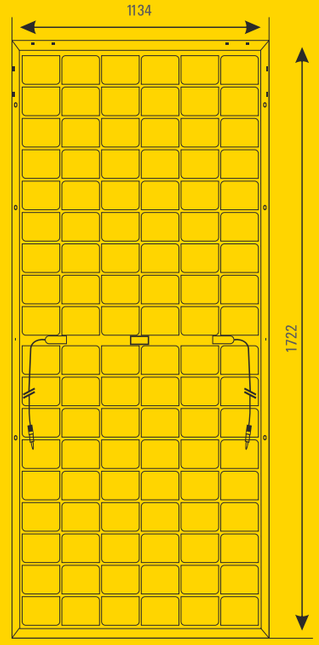
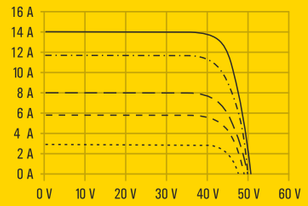
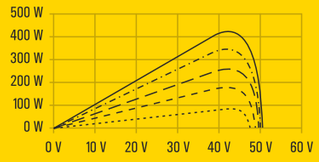
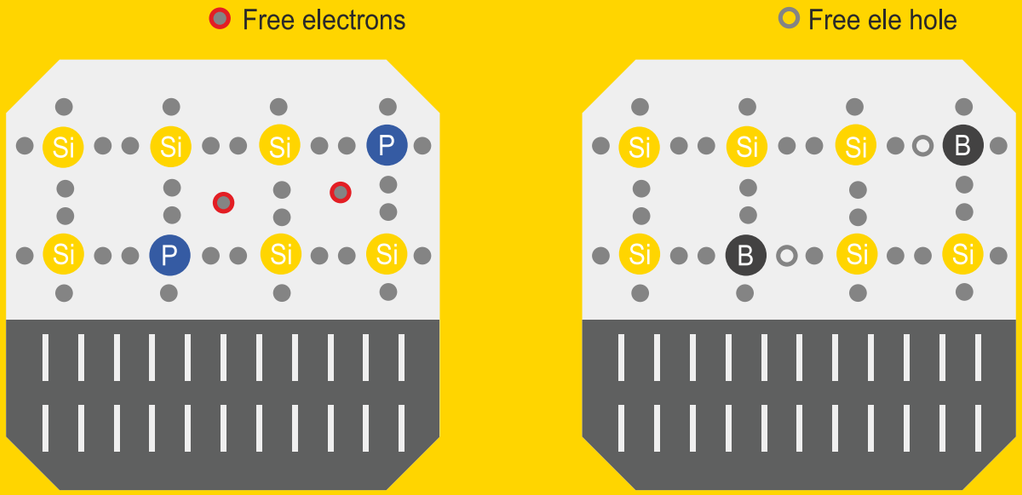


Electrical characteristics





200 W/m²
400 W/m²
600 W/m²
800 W/m²
1000 W/m²



N-TYPE solar cells

P-TYPE solar cells

N-Type TOPCon cells are based on an n-doped crystalline silicon wafer.

Photovoltaic cells differ in their layer structure into positively charged P-type cells and negatively charged N-type cells. With P-type cells, the base layer is doped with boron, which has one electron less than silicon. This creates an electron hole and the positive charge carriers predominate. In N-type cells, the base layer is doped with phosphorus. This has one electron more than silicon. This doping generates free electrons.

The higher efficiency of N-type cells is caused by these free electrons. They are also responsible for the extremely low power losses and prevent phenomena such as PID and LID.

ASOT SOLAR

SOLAR CHANGES THE WORLD