

ALPS54D35-TP

415-440W

High performance TOPCon
Double glass bifacial solar module

Made in EU

Production and development according to the highest quality standards.

Highly profitable

More energy yield over the same area even on cloudy or hot days.

Extremely durable

Outstanding cell stability and high breakage resistance thanks to patented SmartWire Connection Technology.

Consistently sustainable

Regional value creation, made without lead and PFAS, produced using 100% renewable energy.

Guaranteed reliability

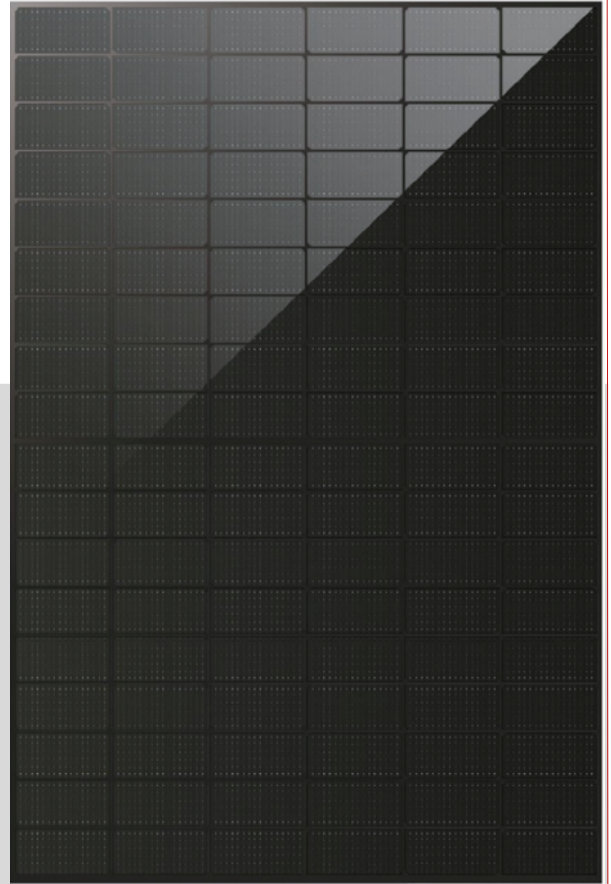
Industry-leading 25-year product and performance warranty.

Extremely aesthetic

Elegant Swiss design suitable for all roof shapes and sophisticated architecture.

Extremely practical

Convenient handling, maximum layout flexibility and maximum system performance thanks to compact format.

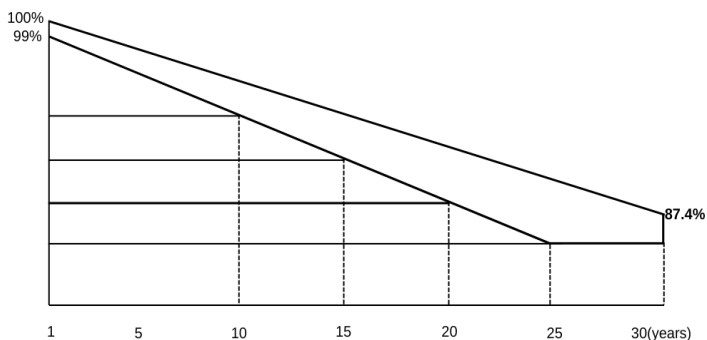


30
YEAR

Linearity power and output warranty

25
YEAR

Excellent products material and process warranty



Reduction within 0.4% per annum on average.

Certificates

IEC 61215, IEC 61730

ISO 9001:Quality Management System

ISO 14001:Environmental Management System

ISO 45001:Occupational Health And Safety Management System

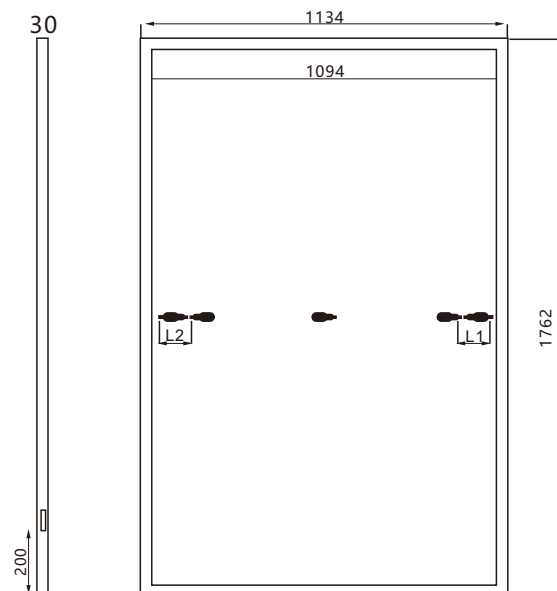
Apls54D35-TP 415-440W

MECHANICAL PROPERTIES

Cell type	Monocrystalline-TOPCon
Component weight	22kg
Component Size	1762x1134x30mm
Number of Cells	108(6x18)
Cable cross-sectional area	4mm ²
Junction Box	IP68, 3 diodes
Connector	MC4 EVO2
Packaging information	36 pieces per pallet/216pcs per 20GP 936pcs per 40 HC

WORKING PARAMETERS

Maximum system voltage	1500V (TUV)
Operating temperature	-40°C ~ +85°C
Maximum fuse current rating	25A
Maximum static load, front	5400pa
Maximum static load,back side	2400pa
Nominal battery operating temperature	45±2°C
Application Level	classA



TEMPERATURE CHARACTERISTICS

Power	-0.350%/°C
Open circuit voltage	-0.274%/°C
Short-circuit current	-0.044%/°C

ELECTRICAL PERFORMANCE PARAMETERS UNDER STC

Model	Alps54D35 -415/TP	Alps54D35 -420/TP	Alps54D35 -425/TP	Alps54D35 -430/TP	Alps54D35 -435/TP	Alps54D35 -440/TP
Maximum power (W)	415	420	425	430	435	440
Voltage at maximum power point (VMPV)	31.75	31.95	32.15	32.35	32.55	32.75
Current at maximum power point (IMP/A)	13.07	13.15	13.22	13.29	13.36	13.44
Open circuit voltage (VOCN)	36.95	37.15	37.35	37.55	37.75	37.95
Short circuit current (ISC/A)	13.81	13.88	13.94	14.01	14.08	14.15
Component efficiency [%]	21.25%	21.51%	21.76%	22.02%	22.28%	22.53%
Power tolerance (W)	0~+5					
Standard test environment	Irradiance 1000W/m ² ,cell temperature 25°Cspectrum AM1.5					

Note: Due to continuous innovation, research and product upgrading, the parameters in this specification are not just a component, but can only be used for comparison between different types.

BIFACIAL OUTPUT - BACKSIDE POWER GAIN

Model	Alps54D35 -415/TP	Alps54D35 -420/TP	Alps54D35 -425/TP	Alps54D35 -430/TP	Alps54D35 -435/TP	Alps54D35 -440/TP
5% Power Output	436	441	446	452	457	462
Module Efficiency	22.31%	22.58%	22.85%	23.12%	23.39%	23.66%
10% Power Output	457	462	468	473	479	484
Module Efficiency	23.38%	23.66%	23.94%	24.22%	24.50%	24.79%
20% Power Output	498	504	510	516	522	528
Module Efficiency	25.50%	25.81%	26.12%	26.42%	26.73%	27.04%

ALPS72D30-TP

560-585W

High performance TOPCon
Double glass bifacial solar module

Made in EU

Production and development according to the highest quality standards.

Highly profitable

More energy yield over the same area even on cloudy or hot days.

Extremely durable

Outstanding cell stability and high breakage resistance thanks to patented SmartWire Connection Technology.

Consistently sustainable

Regional value creation, made without lead and PFAS, produced using 100% renewable energy.

Guaranteed reliability

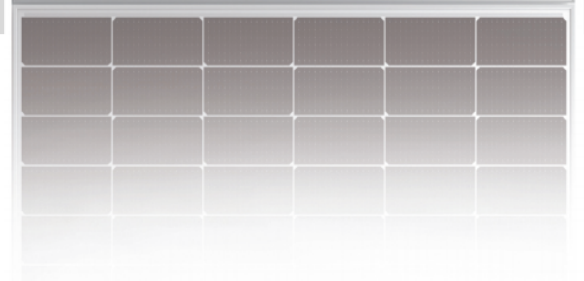
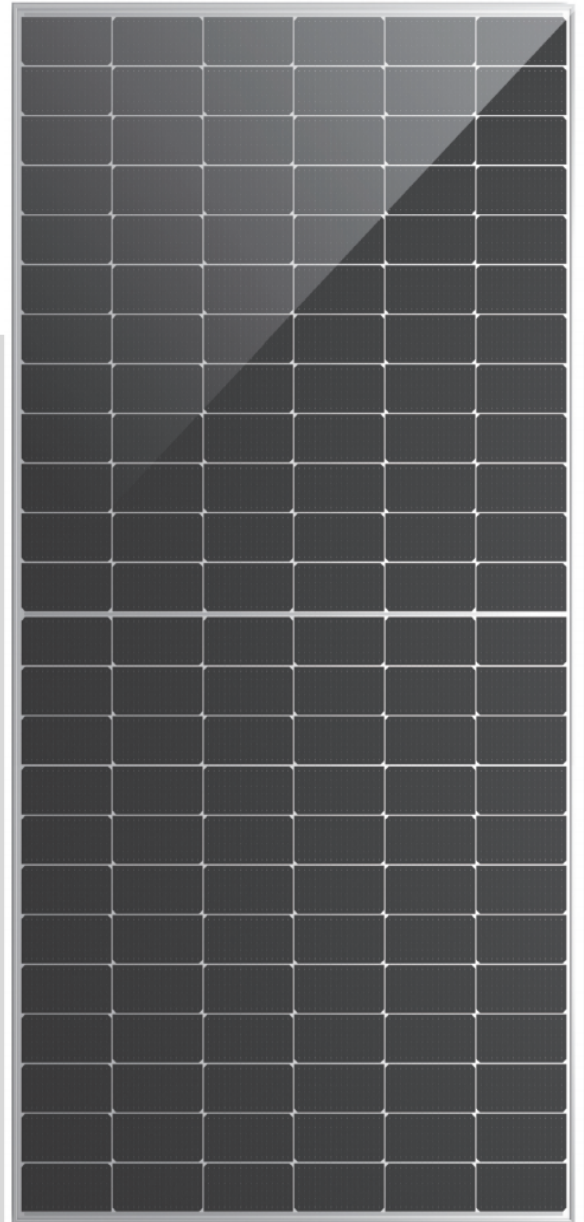
Industry-leading 25-year product and performance warranty.

Extremely aesthetic

Elegant Swiss design suitable for all roof shapes and sophisticated architecture.

Extremely practical

Convenient handling, maximum layout flexibility and maximum system performance thanks to compact format.

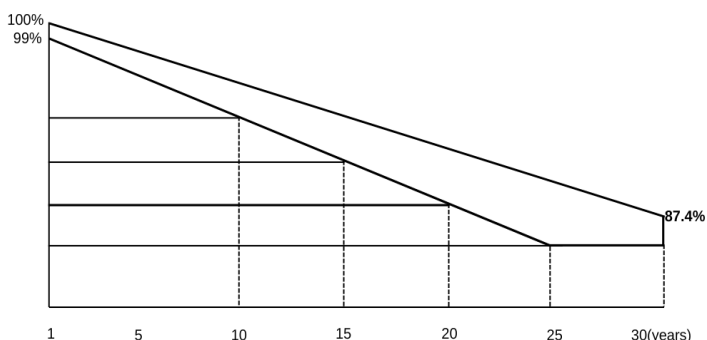


30
YEAR

Linearity power and output warranty

25
YEAR

Excellent products material and process warranty



Reduction within 0.4% per annum on average.

Certificates

IEC 61215, IEC 61730

ISO 9001:Quality Management System

ISO 14001:Environmental Management System

ISO 45001:Occupational Health And Safety Management System

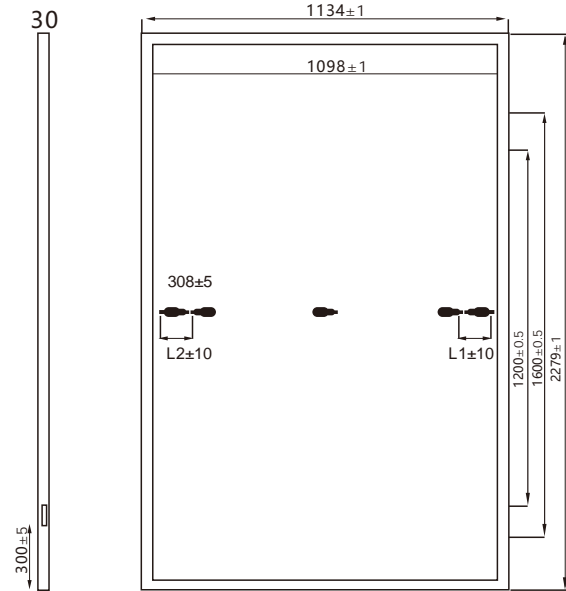
Alps72D30-TP 560-585W

MECHANICAL PROPERTIES

Cell type	Monocrystalline-TOPCon
Component weight	31kg
Component Size	2279x1134x30mm
Number of Cells	144(6x24)
Cable cross-sectional area	4mm ²
Junction Box	IP68, 3 diodes
Connector	MC4 EVO2
Packaging information	36 pieces per pallet 720 pcs / 40' container

WORKING PARAMETERS

Maximum system voltage	1500V (TUV)
Operating temperature	-40°C ~ +85°C
Maximum fuse current rating	30A
Maximum static load, front	5400pa
Maximum static load, back side	2400pa
Nominal battery operating temperature	45 ± 2°C
Application Level	class A



TEMPERATURE CHARACTERISTICS

Power	-0.350%/°C
Open circuit voltage	-0.274%/°C
Short-circuit current	-0.044%/°C

ELECTRICAL PERFORMANCE PARAMETERS UNDER STC

Model	Alps72D30 -560/TP	Alps72D30 -565/TP	Alps72D30 -570/TP	Alps72D30 -575/TP	Alps72D30 -580/TP	Alps72D30 -585/TP
Maximum power (W)	560	565	570	575	580	585
Voltage at maximum power point (VMPV)	43.25	43.55	43.85	44.45	44.45	44.75
Current at maximum power point (IMP/A)	12.95	12.97	13.00	13.02	13.05	13.07
Open circuit voltage (VOCN)	50.30	50.50	50.70	50.90	51.10	51.30
Short circuit current (ISC/A)	14.07	14.13	14.19	14.25	14.31	14.37
Component efficiency [%]	21.67%	21.86%	22.06%	22.25%	22.44%	22.64%
Power tolerance (W)	0 ~ +5					
Standard test environment	Irradiance 1000W/m ² , cell temperature 25°C spectrum AM1.5					

Note: Due to continuous innovation, research and product upgrading, the parameters in this specification are not just a component, but can only be used for comparison between different types.

BIFACIAL OUTPUT - BACKSIDE POWER GAIN

Model	Alps72D30 -560/TP	Alps72D30 -565/TP	Alps72D30 -570/TP	Alps72D30 -575/TP	Alps72D30 -580/TP	Alps72D30 -585/TP
5% Power Output	588	593	599	604	609	614
Module Efficiency	22.75%	22.96%	23.16%	23.36%	23.56%	23.77%
10% Power Output	616	622	627	633	638	644
Module Efficiency	23.84%	24.05%	24.26%	24.47%	24.69%	24.90%
20% Power Output	672	678	684	690	696	702
Module Efficiency	26.00%	26.23%	26.47%	26.70%	26.93%	27.16%

ALPS66D60-TP

585-610W

Double glass bifacial solar module

Made in EU

Production and development according to the highest quality standards.

Highly profitable

More energy yield over the same area even on cloudy or hot days.

Extremely durable

Outstanding cell stability and high breakage resistance thanks to patented SmartWire Connection Technology.

Consistently sustainable

Regional value creation, made without lead and PFAS, produced using 100% renewable energy.

Guaranteed reliability

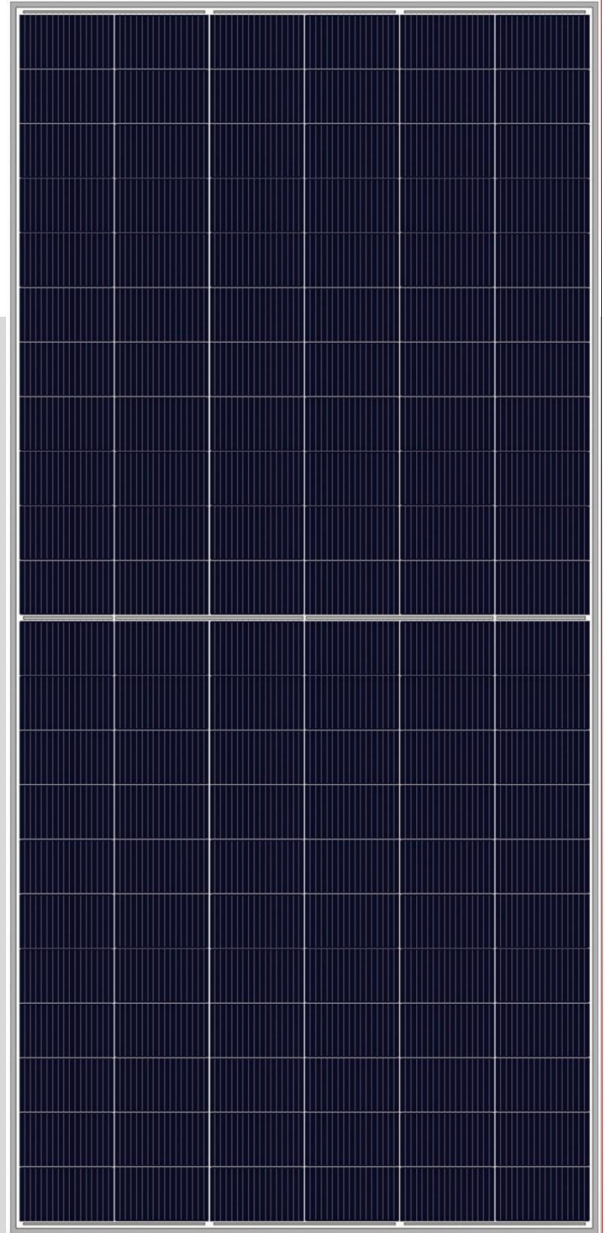
Industry-leading 25-year product and performance warranty.

Extremely aesthetic

Elegant Swiss design suitable for all roof shapes and sophisticated architecture.

Extremely practical

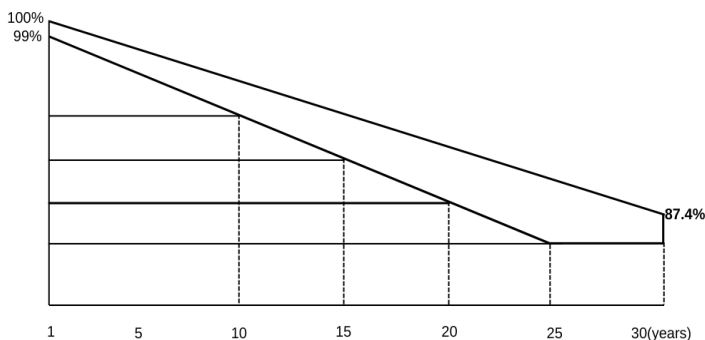
Convenient handling, maximum layout flexibility and maximum system performance thanks to compact format.



Linearity power and output warranty



Excellent products material and process warranty



Reduction within 0.4% per annum on average.

Certificates

IEC 61215, IEC 61730

ISO 9001: Quality Management System

ISO 14001: Environmental Management System

ISO 45001: Occupational Health And Safety Management System

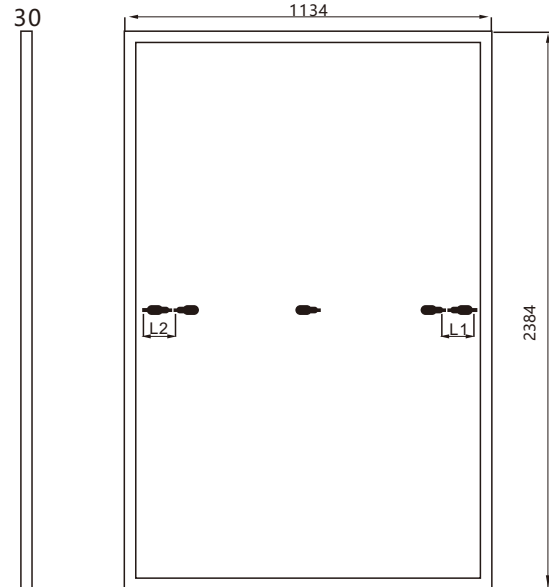
Apls66D60-TP585-610W

MECHANICAL PROPERTIES

Cell type	210R+N-TOPCon
Component weight	33.5kg
Component Size	2384x1134x30mm
Number of Cells	132(6x22)
Cable cross-sectional area	4mm ²
Junction Box	IP68, 3 diodes
Connector	MC4 EVO2
Packaging information	36 pieces per pallet 720pcs per 40 HC

WORKING PARAMETERS

Maximum system voltage	1500V (TUV)
Operating temperature	-40°C ~ +85°C
Maximum fuse current rating	35A
Maximum static load, front	5400pa
Maximum static load,back side	2400pa
Nominal battery operating temperature	
Application Level	



TEMPERATURE CHARACTERISTICS

Power	-0.30%/°C
Open circuit voltage	-0.25%/°C
Short-circuit current	-0.04%/°C

ELECTRICAL PERFORMANCE PARAMETERS UNDER STC

Model	Alps66D60 -585/TP	Alps66D60 -590/TP	Alps66D60 -595/TP	Alps66D60 -600/TP	Alps66D60 -605/TP	Alps66D60 -610/TP
Maximum power (W)	585	590	595	600	605	610
Voltage at maximum power point (VMPV)	39.52	39.75	40.03	40.25	40.50	40.70
Current at maximum power point (IMP/A)	14.80	14.84	14.86	14.91	14.94	14.99
Open circuit voltage (VOCN)	47.50	47.70	47.90	48.10	48.30	48.90
Short circuit current (ISC/A)	15.64	15.67	15.70	15.73	15.76	15.80
Component efficiency [%]	21.64%	21.82%	22.01%	22.19%	22.38%	22.56%
Power tolerance (W)	0~+5					
Standard test environment	Irradiance 1000W/m ² ,cell temperature 25°Cspectrum AM1.5					

Note: Due to continuous innovation, esearch and product upgrading, the parameters in this specification are not just a component,but can only be used for comparison between different types.

BIFACIAL OUTPUT - BACKSIDE POWER GAIN

Model	Alps66D60 -585/TP	Alps66D60 -590/TP	Alps66D60 -595/TP	Alps66D60 -600/TP	Alps66D60 -605/TP	Alps66D60 -610/TP
5% Power Output	614	620	625	630	635	641
Module Efficiency	22.72%	22.92%	23.11%	23.30%	23.50%	23.69%
10% Power Output	644	649	655	660	666	671
Module Efficiency	23.80%	24.01%	24.21%	24.41%	24.62%	24.82%
20% Power Output	702	708	714	720	726	732
Module Efficiency	25.97%	26.19%	26.41%	26.63%	26.85%	27.08%

ALPS66D50-TP

685-710W

Ultra-high Power 210N-TOPCon
Double-sided, double-glass solar module

Made in EU

Production and development according to the highest quality standards.

Highly profitable

More energy yield over the same area even on cloudy or hot days.

Extremely durable

Outstanding cell stability and high breakage resistance thanks to patented SmartWire Connection Technology.

Consistently sustainable

Regional value creation, made without lead and PFAS, produced using 100% renewable energy.

Guaranteed reliability

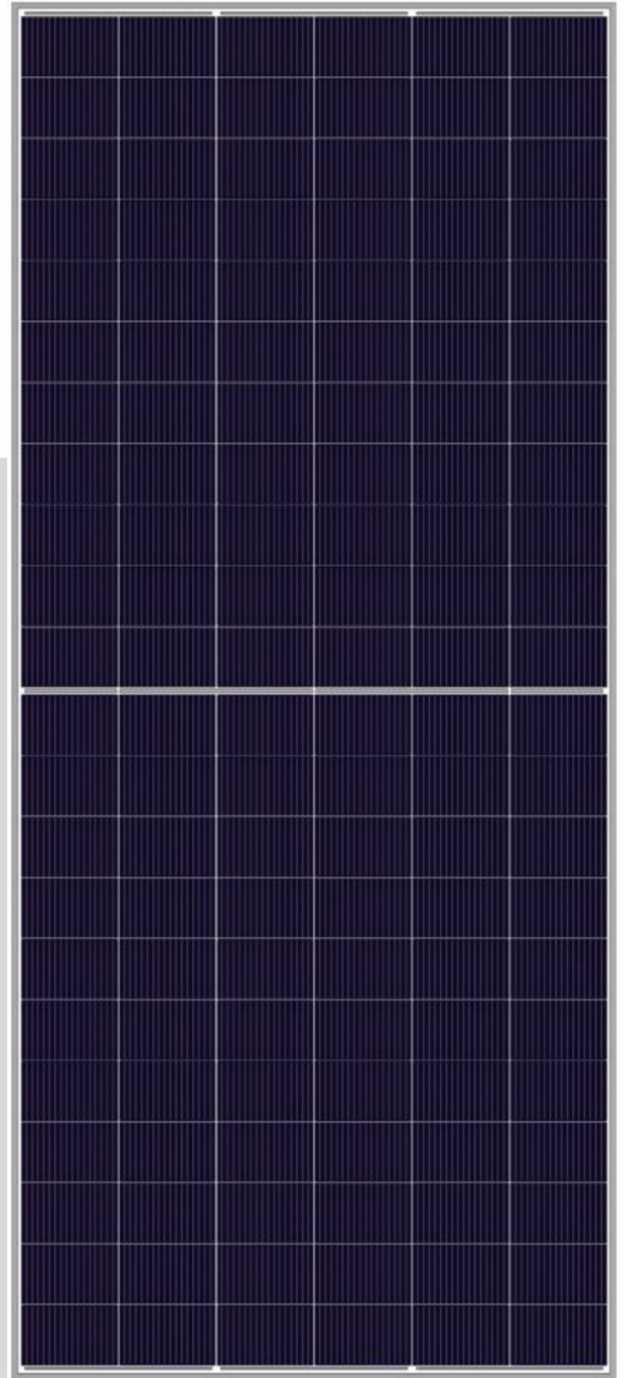
Industry-leading 25-year product and performance warranty.

Extremely aesthetic

Elegant Swiss design suitable for all roof shapes and sophisticated architecture.

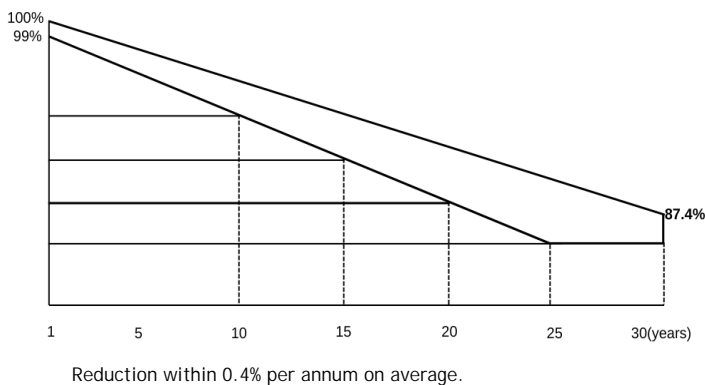
Extremely practical

Convenient handling, maximum layout flexibility and maximum system performance thanks to compact format.



30 YEAR Linearity power and output warranty

25 YEAR Excellent products material and process warranty



Certificates

- IEC 61215, IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO 45001: Occupational Health And Safety Management System

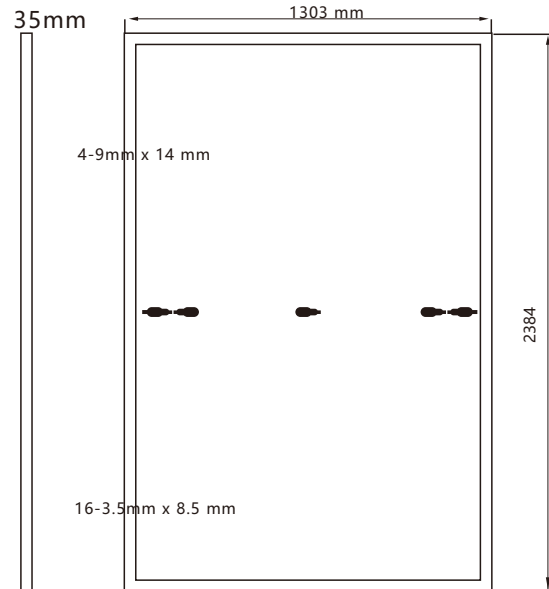
Apls66D50-TP 685-710W

MECHANICAL PROPERTIES

Cell type	210N-Type TOPCon
Component weight	38kg
Component Size	2382x1303x35mm
Number of Cells	132(6x22)
Cable cross-sectional area	4mm ²
Junction Box	IP68, 3 diodes
Connector	MC4 EVO2
Packaging information	31 pieces per pallet 558 pcs per 40 HC

WORKING PARAMETERS

Maximum system voltage	1500V (TUV)
Operating temperature	-40°C ~ +85°C
Maximum fuse current rating	25A
Maximum static load, front	5400pa
Maximum static load, back side	2400pa
Nominal battery operating temperature	45 ± 2°C
Application Level	classA



TEMPERATURE CHARACTERISTICS

Power	-0.30%/°C
Open circuit voltage	-0.25%/°C
Short-circuit current	-0.04%/°C

ELECTRICAL PERFORMANCE PARAMETERS UNDER STC

Model	Alps66D50 -685/TP	Alps66D50 -690/TP	Alps66D50 -695/TP	Alps66D50 -700/TP	Alps66D50 -705/TP	Alps66D50 -710/TP
Maximum power (W)	685	690	695	700	705	710
Voltage at maximum power point (VMPV)	39.75	40.00	40.25	40.50	40.75	41.00
Current at maximum power point (IMP/A)	17.23	17.25	17.27	17.28	17.30	17.32
Open circuit voltage (VOCN)	47.60	47.90	48.20	48.50	48.80	49.10
Short circuit current (ISC/A)	18.25	18.28	18.31	18.34	18.37	18.40
Component efficiency [%]	22.05%	22.21%	22.37%	22.53%	22.70%	22.86%
Power tolerance (W)	0 ~ +5					
Standard test environment	Irradiance 1000W/m ² , cell temperature 25°C spectrum AM1.5					

Note: Due to continuous innovation, research and product upgrading, the parameters in this specification are not just a component, but can only be used for comparison between different types.

BIFACIAL OUTPUT - BACKSIDE POWER GAIN

Model	Alps66D50 -685/TP	Alps66D50 -690/TP	Alps66D50 -695/TP	Alps66D50 -700/TP	Alps66D50 -705/TP	Alps66D50 -710/TP
5% Power Output	719	725	730	735	740	746
Module Efficiency	23.15%	23.32%	23.49%	23.66%	23.83%	24.00%
10% Power Output	754	759	765	770	776	781
Module Efficiency	24.26%	24.43%	24.61%	24.79%	24.96%	25.14%
20% Power Output	822	828	834	840	846	852
Module Efficiency	26.46%	26.66%	26.85%	27.04%	27.23%	27.43%