

ALPS54T35-TP

405-430W

All-black Aesthetic N-Type
High-efficiency Photovoltaic 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

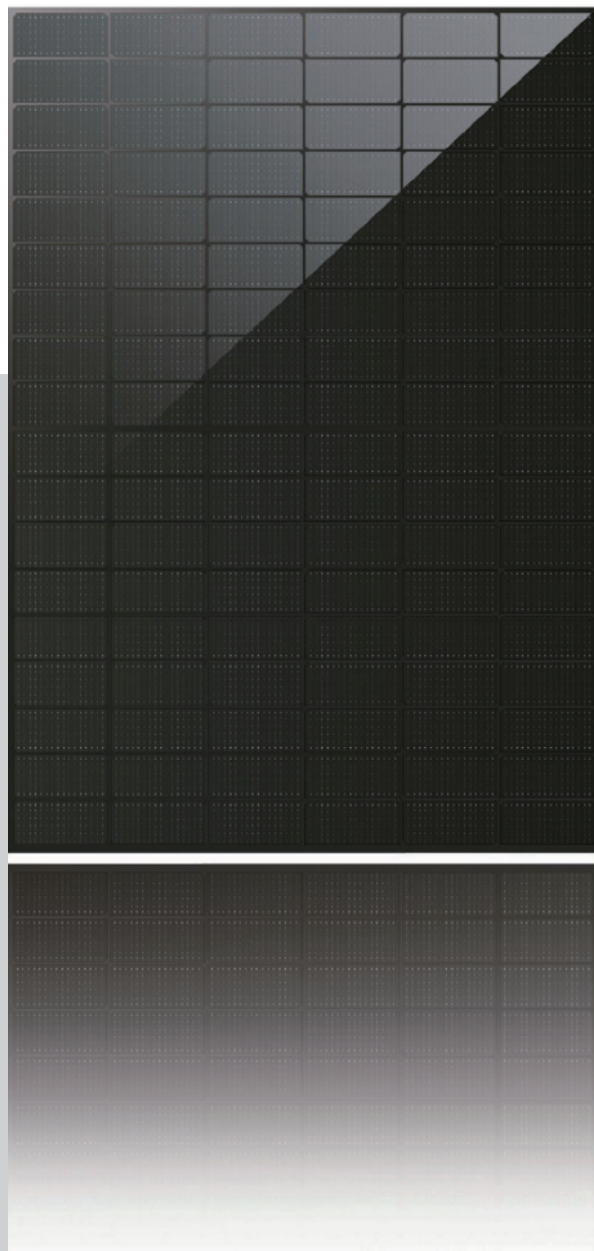
Industry-leading 25-year product and performance warranty.

Extremely aesthetic

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

Extremely practical

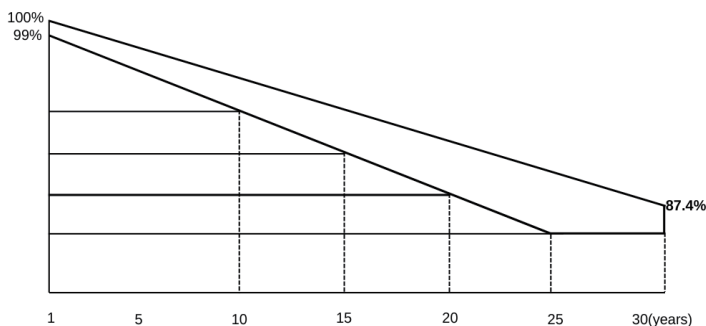
Convenient handling, maximum layout flexibility and maximum system performance thanks to compact format.



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

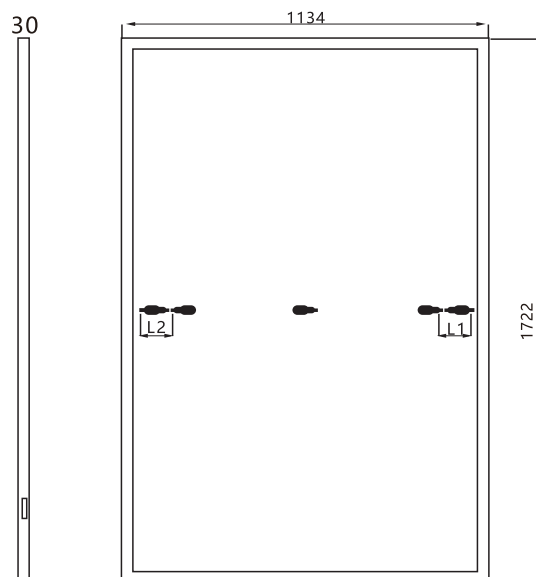
Alps54T35-TP 405-430W

MECHANICAL PROPERTIES

Cell type	Monocrystalline- N-Type
Component weight	21.5kg
Component Size	1722x1134x30mm
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 936pcs per 40 HC

WORKING PARAMETERS

Maximum system voltage	1500V (DC)
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	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	Alps54T35 -405/TP	Alps54T35 -410/TP	Alps54T35 -415/TP	Alps54T35 -420/TP	Alps54T35 -425/TP	Alps54T35 -430/TP
Maximum power (W)	405	410	415	420	425	430
Voltage at maximum power point (VMPV)	31.35	31.65	31.85	32.05	32.25	32.45
Current at maximum power point (IMP/A)	12.92	12.95	13.03	13.10	13.18	13.25
Open circuit voltage (VOCN)	37.13	37.53	37.78	38.03	38.28	38.53
Short circuit current (ISC/A)	13.83	13.90	13.94	13.99	14.04	14.09
Component efficiency [%]	20.74%	21.00%	21.25%	21.51%	21.76%	22.02%
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.

ELECTRICAL PERFORMANCE PARAMETERS UNDER NOCT

Model	Alps54T35 -405/TP	Alps54T35 -410/TP	Alps54T35 -415/TP	Alps54T35 -420/TP	Alps54T35 -425/TP	Alps54T35 -430/TP
Maximum power (W)	301	305	309	312	316	320
Voltage at maximum power point (Vmp)[V]	29.31	29.55	29.73	29.91	30.12	30.33
Current at maximum power point (Imp)[A]	10.28	10.32	10.39	10.45	10.50	10.55
Open circuit voltage (Voc)[V]	35.16	34.94	35.16	35.36	35.56	35.76
Short circuit current (Isc)[A]	11.55	11.43	11.55	11.61	11.67	11.75
Nominal cell operating temperature (NOCT)	Irradiance 800W/m ² , ambient temperature 20°C, spectrum AM1.5G, wind speed 1m/s					