

# ALPS72T31-TP

## 555-585W

High efficiency N-Type 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

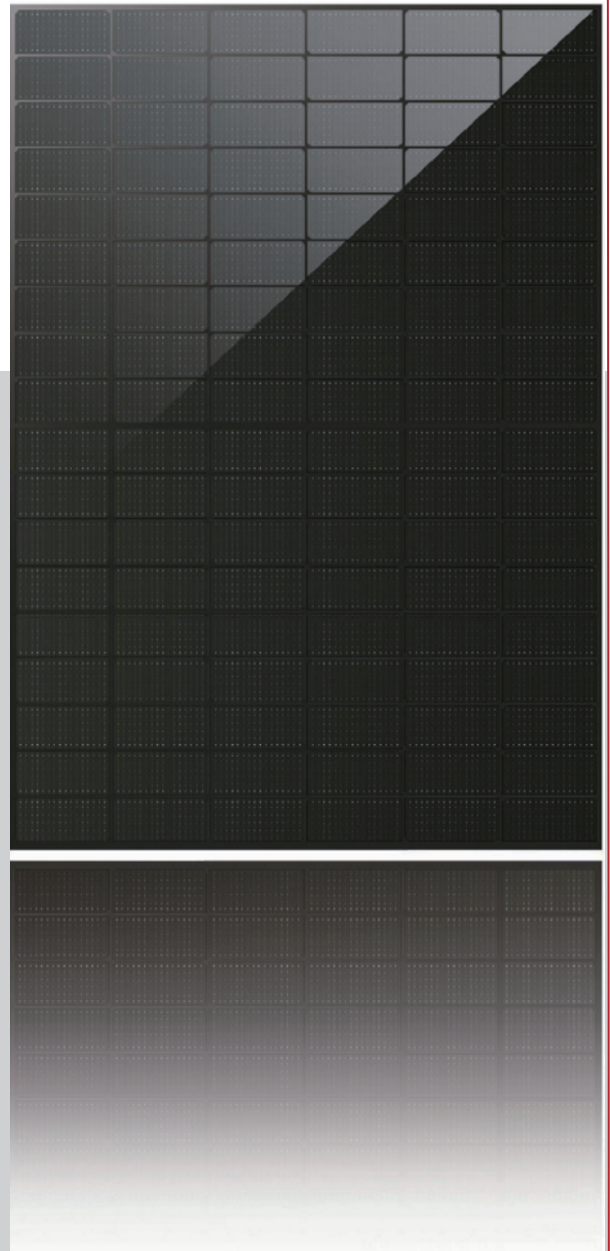
Industry-leading 25-year product and performance warranty.

### 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.

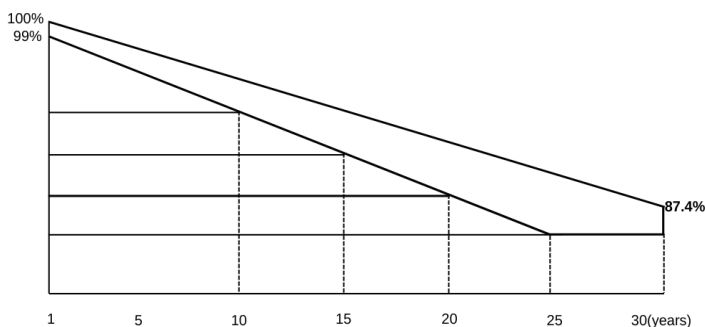


**30**  
YEAR

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

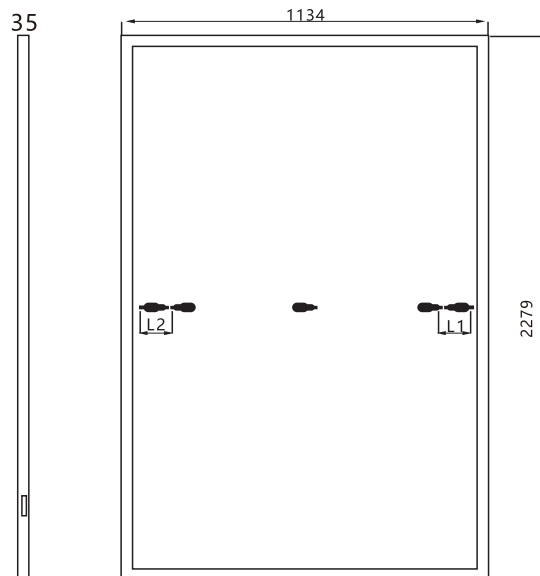
## Alps72T31-TP 555-585W

### MECHANICAL PROPERTIES

Cell type	Monocrystalline-N-Type
Component weight	28kg
Component Size	2279x1134x35mm
Number of Cells	144(6x24)
Cable cross-sectional area	4mm <sup>2</sup>
Junction Box	IP68, 3 diodes
Connector	MC4 EVO2
Packaging information	31 pieces per pallet 620pcs 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	Alps72T31 -555/TP	Alps72T31 -560/TP	Alps72T31 -565/TP	Alps72T31 -570/TP	Alps72T31 -575/TP	Alps72T31 -580/TP	Alps72T31 -585/TP
Maximum power (W)	555	560	565	570	575	580	585
Voltage at maximum power point (VMPV)	42.95	43.25	43.55	43.85	44.15	44.45	44.75
Current at maximum power point (IMP/A)	12.92	12.95	12.97	13.00	13.02	13.05	13.07
Open circuit voltage (VOCN)	50.10	50.30	50.50	50.70	50.90	51.10	51.30
Short circuit current (ISC/A)	14.01	14.07	14.13	14.19	14.25	14.31	14.37
Component efficiency [%]	21.48%	21.67%	21.86%	22.06%	22.25%	22.44%	22.64%
Power tolerance (W)	0~+5						
Standard test environment	Irradiance 1000W/m2, 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	Alps72T31 -555/TP	Alps72T31 -560/TP	Alps72T31 -565/TP	Alps72T31 -570/TP	Alps72T31 -575/TP	Alps72T31 -580/TP	Alps72T31 -585/TP
Maximum power (W)	413	417	420	413	428	432	435
Voltage at maximum power point (Vmp)[V]	39.49	39.79	40.09	39.49	40.69	40.99	41.29
Current at maximum power point (Imp)[A]	10.46	10.47	10.49	10.46	10.51	10.53	10.54
Open circuit voltage (Voc)[V]	46.75	46.95	47.15	46.75	47.55	47.75	47.95
Short circuit current (Isc)[A]	11.35	11.40	11.45	11.35	11.55	11.60	11.65
Nominal cell operating temperature(NOCT)	Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, spectrum AM1.5G, wind speed 1m/s						