

ALPS72D30-TP

580-610W

High performance N-type
Dual Glass Bifacial Solar Module

European Quality

Manufactured in the EU with the highest quality standards and advanced technology.

Exceptional Efficiency

Delivers superior energy yield even in low-light or high-temperature conditions.

Reliable Durability

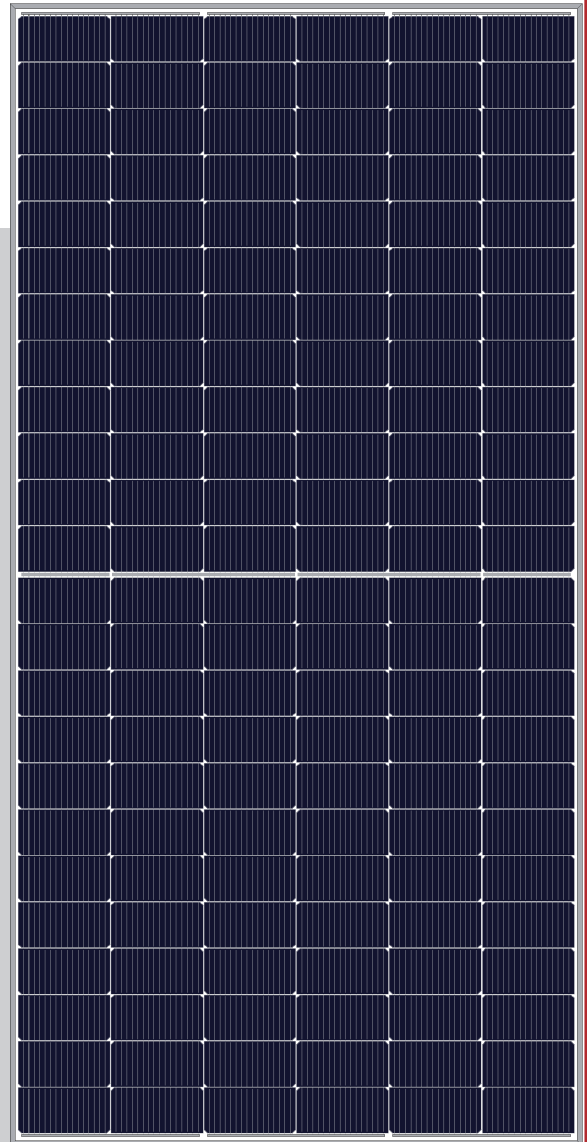
Engineered with premium tempered glass and reinforced frames for lasting reliability.

N-Type with Low LID

Advanced N-type cells minimize Light-Induced Degradation (LID) for performance stability.

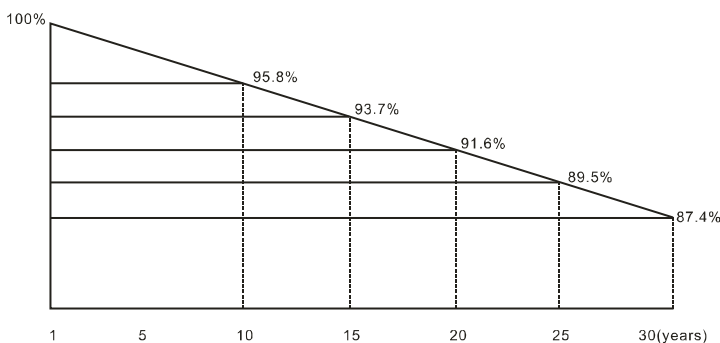
Unmatched Warranty

30-year performance and 25-year product coverage surpass industry norms.



30
YEAR
Linearity power and output warranty

25
YEAR
Excellent products material and process warranty



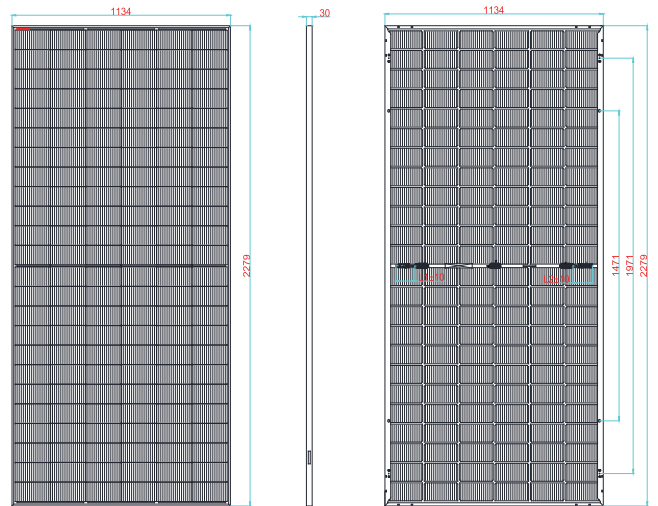
Comprehensive Certificates



IEC 61215, IEC 61730, UL61730
ISO 9001: 2015 / Quality Management System
ISO 14001: 2015 / Environmental Management System
ISO 45001: 2018 / Occupational Health And Safety

MECHANICAL PROPERTIES

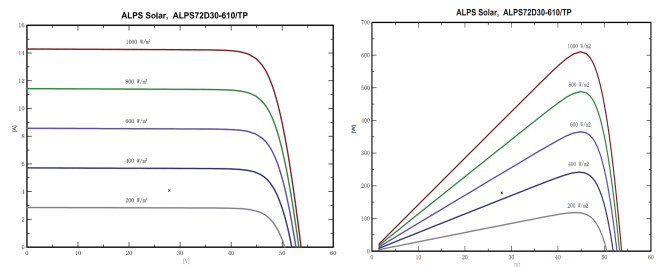
Solar Cells	182 N-type
Number of Cells	144(6×24)
Module Dimensions	2279×1134×30 mm
Weight	31kg
Cable Cross Section Size	4mm ² (IEC),12AWG(UL)
Junction Box	IP68, 3diodes
Connector	MC4 / EVO 2A
Cable Length(Including Connector)	290mm
Front Glass/Back Glass	2.0mm/2.0mm (White Grid Glass)
Packaging information	36pcs/Pallet,720pcs/40HQ Container



WORKING PARAMETERS

Maximum System Voltage	1500V DC (IEC)
Operational Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Maximum Static Load, Front	5400 pa
Maximum Static Load, Back	2400 pa
NOCT	45±2°C
Safety Class	Class A

CHARACTERISTICS



ELECTRICAL DATA (STC&BNPI)

Model	ALPS72D30-580/TP		ALPS72D30-585/TP		ALPS72D30-590/TP		ALPS72D30-595/TP		ALPS72D30-600/TP		ALPS72D30-605/TP		ALPS72D30-610/TP	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Testing Condition														
Rated Maximum Power (Pmax) [W]	580	643	585	648	590	654	595	659	600	665	605	670	610	676
Maximum Power Voltage (Vmp) [V]	43.95	44.05	44.15	44.25	44.35	44.45	44.55	44.65	44.75	44.85	44.95	45.05	45.15	45.25
Maximum Power Current (Imp) [A]	13.20	14.59	13.25	14.65	13.30	14.71	13.36	14.77	13.41	14.82	13.46	14.88	13.51	14.94
Open Circuit Voltage (Voc) [V]	52.50	52.60	52.70	52.80	52.90	53.00	53.10	53.20	53.30	53.40	53.50	53.60	53.70	53.80
Short Circuit Current (Isc) [A]	13.93	15.43	13.99	15.49	14.05	15.55	14.11	15.61	14.17	15.67	14.23	15.73	14.29	15.79
Module Efficiency [%]	22.44		22.64		22.83		23.02		23.22		23.41		23.60	
Power Tolerance	0~+3%													
Temperature Coefficient of Isc	+0.044%/°C													
Temperature Coefficient of Voc	-0.250%/°C													
Temperature Coefficient of Pmax	-0.290%/°C													
Standard test environment	STC: Irradiance 1000W/m ² , Cell Temperature 25°C, Air Mass AM1.5 BNPI: Irradiance: front 1000W/m ² , rear 135W/m ² , Cell Temperature 25°C, AM=1.5													

Note: Continuous innovation and product upgrades may result in changes to specifications. These parameters are intended for comparison between different models only.

BIFACIAL OUTPUT-BACKSIDE POWER GAIN

Model	ALPS72D30-580/TP	ALPS72D30-585/TP	ALPS72D30-590/TP	ALPS72D30-595/TP	ALPS72D30-600/TP	ALPS72D30-605/TP	ALPS72D30-610/TP
5% Power Output (W)	609	614	620	625	630	635	641
Module Efficiency	23.56%	23.77%	23.97%	24.17%	24.38%	24.58%	24.78%
10% Power Output (W)	638	644	649	655	660	666	671
Module Efficiency	24.69%	24.90%	25.11%	25.33%	25.54%	25.75%	25.96%
20% Power Output (W)	696	702	708	714	720	726	732
Module Efficiency	26.93%	27.16%	27.40%	27.63%	27.86%	28.09%	28.32%