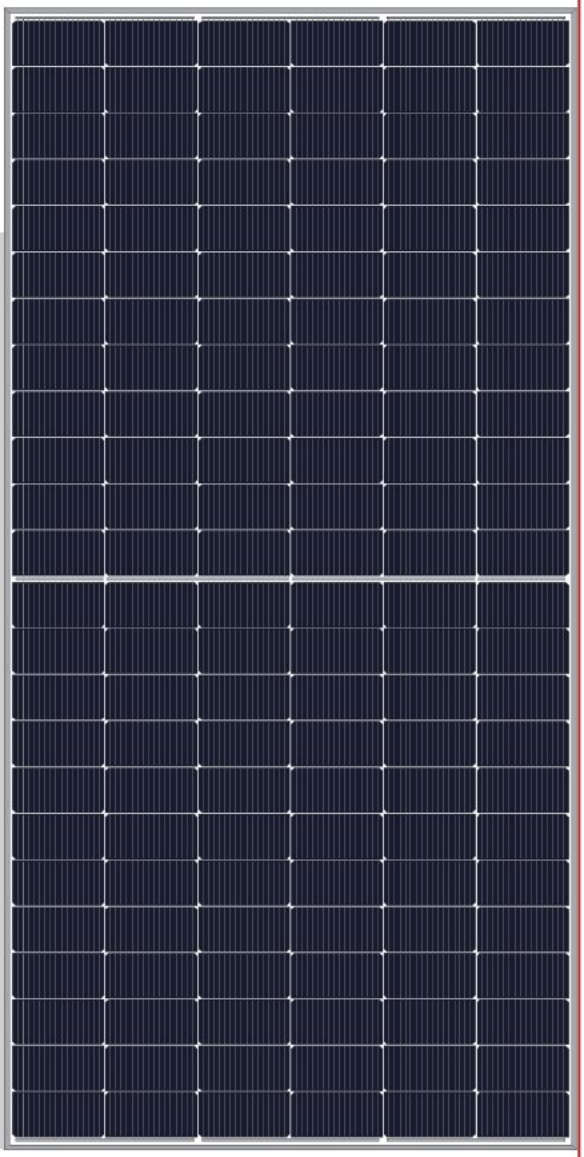
ALPS SOLAR

N-type module

ALPS72D30-TP

580-605W

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.

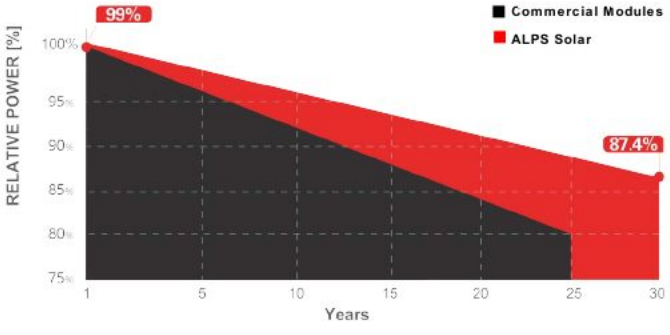
N-Type with Low LID
Advanced N-type cells minimize Light-Induced Degradation (LID) for performance stability.

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

ALPS N-type Module Performance 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

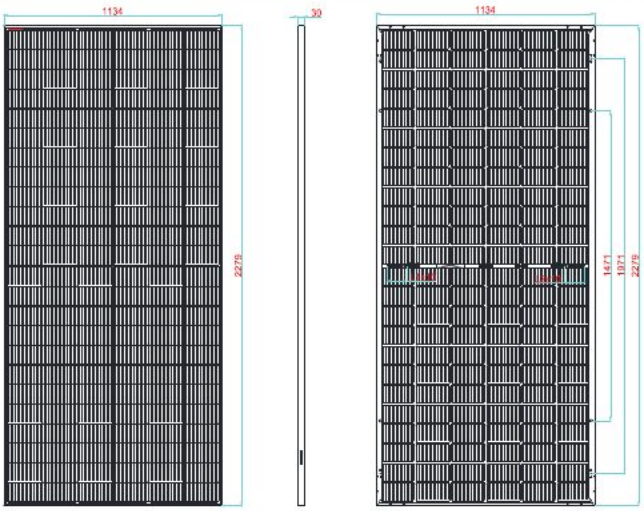
As of: Version A1 2024_en

Made in Romania

ALPS72D30-TP(580-605)

MECHANICAL PROPERTIES

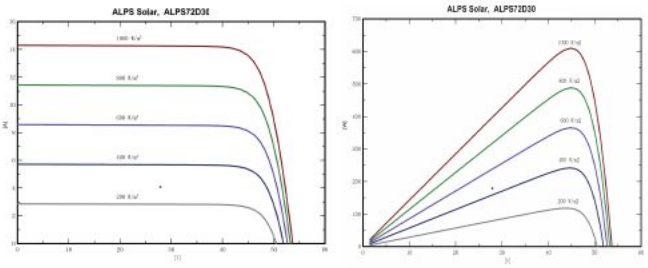
Solar Cells	182 N-type
Number of Cells	144(6×24)
Module Dimensions	2279×1134×35 mm
Weight	31kg
Cable Cross Section Size	4mm²(IEC),12AWG(UL)
Junction Box	IP68, 3diodes
Connector	MC4 (QC4.10)
Cable Length(Including Connector)	1300mm
Front Glass/Back Glass	2.0mm/2.0mm (White Grid Glass)
Packaging information	31pcs/Pallet, 620pcs/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	
Testing Condition	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Rated Maximum Power (Pmax) [W]	580	643	585	648	590	654	595	659	600	665	605	670
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
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
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
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
Module Efficiency [%]	22.44		22.64		22.83		23.02		23.22		23.41	
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/m2, Cell Temperature 25°C, Air Mass AM1.5 BNPI: Irradiance: front 1000W/m, rear 135W/m2, 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
5%	Power Output (W)	609	614	620	625	630	635
	Module Efficiency	23.56%	23.77%	23.97%	24.17%	24.38%	24.58%
10%	Power Output (W)	638	644	649	655	660	666
	Module Efficiency	24.69%	24.90%	25.11%	25.33%	25.54%	25.75%
20%	Power Output (W)	696	702	708	714	720	726
	Module Efficiency	26.93%	27.16%	27.40%	27.63%	27.86%	28.09%

Note:The information included in this PV module datasheet is subject to change without any notice and is provided for informational purposes only. No contractual rights are established or should be inferred because of the user's reliance on the information contained in this PV module datasheet. Please contact ALPS Solar Energy's local offices for updated product information.Thank you.