



N-type module

# ALPS66D30-TP

## 530–560W

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.

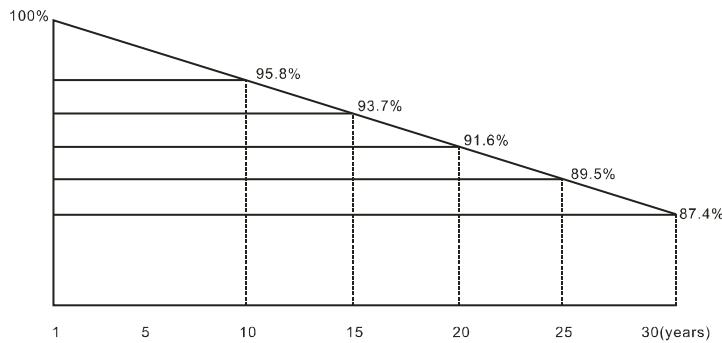
### Unmatched Warranty

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

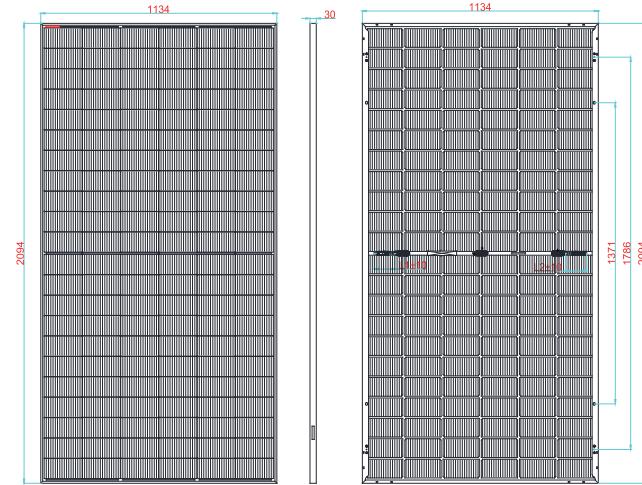
ISO 9001: 2015 / Quality Management System

ISO 14001: 2015 / Environmental Management System

ISO 45001: 2018 / Occupational Health And Safety

## MECHANICAL PROPERTIES

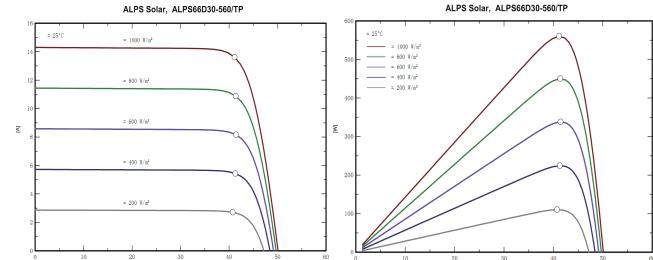
Solar Cells	182 N-type
Number of Cells	132(6×22)
Module Dimensions	2094×1134×30 mm
Weight	28kg
Cable Cross Section Size	4mm <sup>2</sup> (IEC),12AWG(UL)
Junction Box	IP68, 3diodes
Connector	MC4 / EVO 2A
Cable Length(Including Connector)	290mm
Front Glass/Back Glass	2.0mm/2.0mm (White Grid Glass)
Packaging 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&amp;BNPI)

Model	ALPS66D30 -530/TP		ALPS66D30 -535/TP		ALPS66D30 -540/TP		ALPS66D30 -545/TP		ALPS66D30 -550/TP		ALPS66D30 -555/TP		ALPS66D30 -560/TP										
Testing Condition	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI									
Rated Maximum Power (Pmax) [W]	530	587	535	593	540	598	545	604	550	609	555	615	560	620									
Maximum Power Voltage (Vmp) [V]	40.05	40.15	40.25	40.35	40.45	40.55	40.65	40.75	40.85	40.95	41.05	41.15	41.25	41.35									
Maximum Power Current (Imp) [A]	13.23	14.63	13.29	14.69	13.35	14.76	13.41	14.82	13.46	14.88	13.52	14.94	13.58	15.01									
Open Circuit Voltage (Voc) [V]	48.90	49.00	49.10	49.20	49.50	49.40	49.50	49.60	49.70	49.80	49.90	50.00	50.10	50.20									
Short Circuit Current (Isc) [A]	13.94	15.44	14.00	15.50	14.12	15.56	14.12	15.62	14.18	15.68	14.24	15.74	14.30	15.80									
Module Efficiency [%]	22.32		22.53		22.74		22.95		23.16		23.37		23.58										
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 <sup>2</sup> , Cell Temperature 25°C, Air Mass AM1.5 BNPI: Irradiance: front 1000W/m, rear 135W/m <sup>2</sup> , 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	ALPS66D30 -530/TP	ALPS66D30 -535/TP	ALPS66D30 -540/TP	ALPS66D30 -545/TP	ALPS66D30 -550/TP	ALPS66D30 -555/TP	ALPS66D30 -560/TP
5% Power Output (W)	557	562	567	572	578	583	588
Module Efficiency	23.44%	23.66%	23.88%	24.10%	24.32%	24.54%	24.76%
10% Power Output (W)	583	589	594	600	605	611	616
Module Efficiency	24.55%	24.78%	25.01%	25.25%	25.48%	25.71%	25.94%
20% Power Output (W)	636	642	648	654	660	666	672
Module Efficiency	26.78%	27.04%	27.29%	27.54%	27.79%	28.05%	28.30%