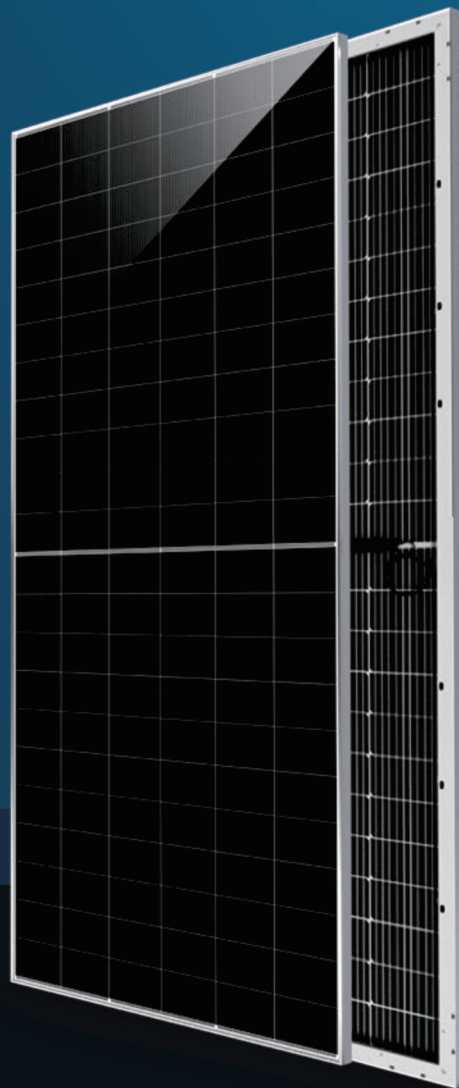




ALPS66D60-TP

600-625W

High Performance
N-type Dual Glass Bifacial Solar Module



30 LINEARITY POWER
YEAR AND
OUTPUT WARRANTY

25 EXCELLENT PRODUCTS
YEAR MATERIAL AND
PROCESS WARRANTY

KEY FEATURES



Reliable Quality

Manufactured with consistent quality and advanced technology across our global production facilities.



Exceptional Efficiency

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



Tested for Extreme Conditions

Certified under IEC 61215 and withstand 45 mm hail impact demonstrating reliability and strength.



N-Type with Low LID

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



Industry-Leading Warranty

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

COMPREHENSIVE CERTIFICATES



CALIFORNIA
ENERGY COMMISSION

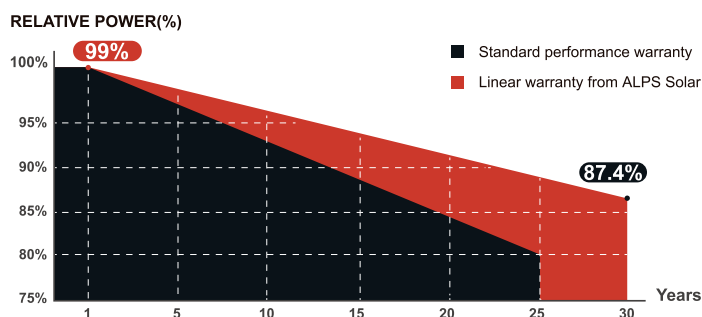
IEC 61215, IEC 61730, UL 61730

ISO 9001: 2015 / Quality Management System

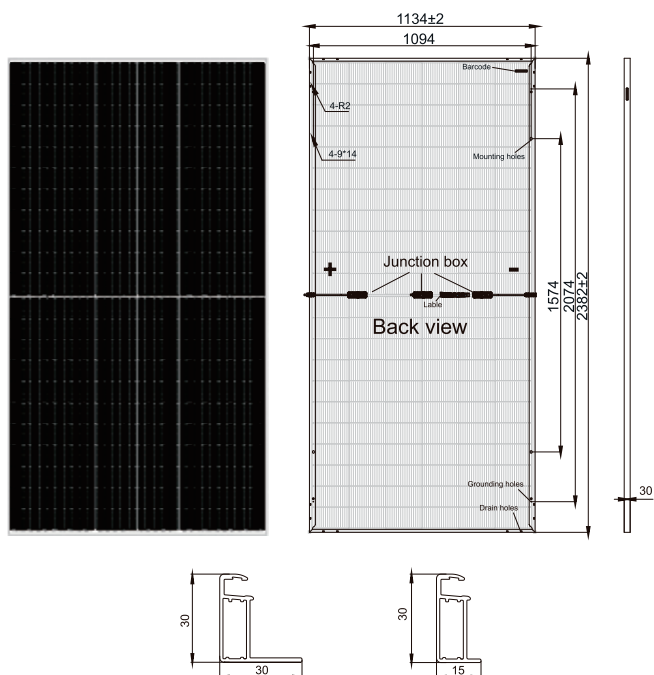
ISO 14001: 2015 / Environmental Management System

ISO 45001: 2018 / Occupational Health and Safety

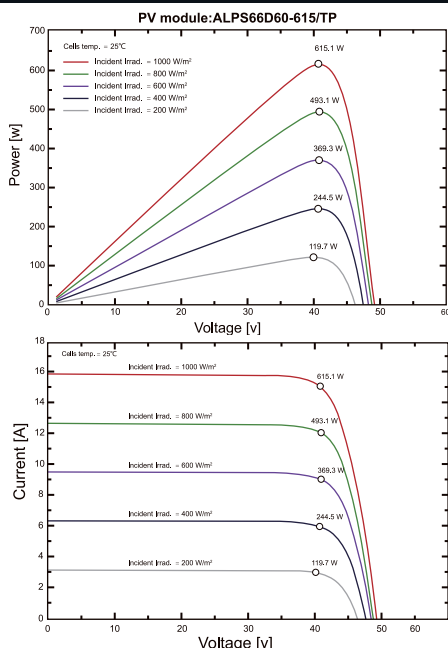
ALPS N-TYPE MODULE PERFORMANCE WARRANTY



ENGINEERING DRAWINGS



I-V CURVES



PACKING CONFIGURATION

Pieces per pallet	36 pcs
Pallet Dimension	2395 x 1135 x 1255 mm
Weight of packing	1249 kg / 2754 lb
Pieces per container	720 pcs
Size of container	40'HQ

ELECTRICAL CHARACTERISTICS (STC)

Power Level	600	605	610	615	620	625
Pmax (W)	600	605	610	615	620	625
Vmp (V)	40.25	40.50	40.70	40.90	41.10	41.30
Imp (A)	14.91	14.94	14.99	15.04	15.09	15.13
Voc (V)	48.10	48.30	48.90	49.20	49.40	49.60
Isc (A)	15.73	15.76	15.80	15.86	15.92	15.98
Module Efficiency (%)	22.21	22.40	22.58	22.77	22.95	23.14
Power Tolerance (W)	0~+3%					
Temperature Coefficient Pmax (%/°C)	-0.30					
Temperature Coefficient Isc (%/°C)	0.04					
Temperature Coefficient Voc (%/°C)	-0.25					

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5

BIFACIAL OUTPUT-BACKSIDE POWER GAIN

5%	Power Output (W)	630	635	641	646	651	656
	Module Efficiency (%)	23.32	23.52	23.71	23.91	24.10	24.29
10%	Power Output (W)	660	666	671	677	682	688
	Module Efficiency (%)	24.43	24.64	24.84	25.04	25.25	25.45
20%	Power Output (W)	720	726	732	738	744	750
	Module Efficiency (%)	26.65	26.88	27.10	27.32	27.54	27.77

WORKING CHARACTERISTICS (BNPI)

Pmax (W)	665	670	676	681	687	693
Vmp (V)	40.35	40.60	40.80	41.00	41.20	41.40
Imp (A)	16.48	16.51	16.57	16.62	16.67	16.73
Voc (V)	48.2	48.4	49.0	49.3	49.5	49.7
Isc (A)	17.23	17.26	17.30	17.36	17.42	17.48

BNPI: Front Irradiance 1000 W/m², Rear 135 W/m², Cell Temperature 25°C, AM=1.5

WORKING PARAMETERS

Maximum System Voltage	1500V DC (IEC)
Operational Temperature	-40~+85 °C
Maximum Series Fuse Rating	30 A
Maximum Static Load, Front	5400 Pa
Maximum Static Load, Back	3750 Pa
NOCT	45±2 °C
Safety Class	Class A

MECHANICAL CHARACTERISTICS

Solar Cells	210R N-type
Number of Cells	132 pcs (6x22)
Module Dimensions	2382 x 1134 x 30 mm
Weight	33.5 kg / 73.9 lb
Cable Cross Section Size	4 mm² (IEC), 12 AWG (UL)
Junction box	IP68, 3 diodes
Connectors	Stäubli EVO2
Output Cable (accept customization)	(+) 1200 mm / (-) 1200 mm
Front Glass / Back Glass	2.0 mm / 2.0 mm

MAXIMUM RATINGS

Operating Temperature	-40~85 °C
Operating Humidity	5~85 %RH
Hail Impact Resistance	Withstands 45 mm hail at 31 m/s

Revised in July 2025 1st Edition*

CAUTION: All rights and explain reserved by Alps Solar Energy Inc.
Specifications included in this datasheet are subject to change without notice.
The specific content of the product warranty refers to Alps's latest warranty.