ATLAS

ENGINEERED IN IRELAND BY ACTIV8 ENERGIES

ACTIV8 SOLAR ENERGIES

ATLAS Duo N48-Type

Engineered specifically for the Irish market

LLOYD'S LLOYD'S OF LONDON x3

Triple Lock Guarantee

BREAKING THE 20% EFFICIENCY BARRIER

Our panels have broken the 20% efficiency barrier, through Half Cell, TOPCon 5.0, Tiled Cell, N-Type Technology.

INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light behaviour in the transitional months here in Ireland.

EXTREME WEATHER RATING

High-tech aluminium alloy frame, certified for high snow and wind loads.

SALT MIST AND AMMONIA RESISTANT

Due to much of our islands proximity to the coast, salt mist is a key aspect of choosing our panels along with ammonia resistance due to Ireland's widespread agricultural use.

ENDURING HIGH PERFORMANCE

Tier 1 manufactured for long-term yield security with Anti-LID Technology, Anti PID Technology, Hot-Spot Protect and Traceable Quality.

ALL-BLACK TECHNOLOGY

Sleek crystalline black appearance, seamlessly blending into rooftops.

450W	23.3%	≤ 0.4%	25	30
Power Range	Max Module Efficiency	30 Year Degradation	Year Product Warranty	Linear Power Warranty

CE

ISO 9001:2015:ISO Quality Management System
ISO 14001:2015:ISO Environment Management System
ISO 45001:Occupational Health and Safety
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activ8energies.com

TÜVRheinland CERTIFIED
IEC 61215
IEC 61730
Regular Production Surveillance
www.tuv.com
ID 1111290502

TÜVNORD

DEKRA

Tier 1 BloombergNEF

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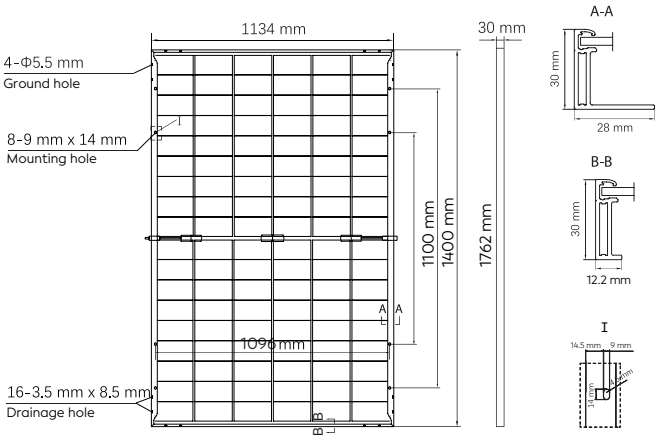
MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1762 x 1134 x 30 mm
Cell type	n-type mono-crystalline
No. of cells	96 (6*16)
Frame technology	Aluminum, black anodized
Front / Back glass	2.0+2.0 mm
Cable length (Including connector)	Landscape: 1200 mm
Cable diameter (IEC/UL)	4 mm² / 12 AWG
①Maximum mechanical test load	6000 Pa (front) / 4000 Pa (back)
Connector type (IEC/UL)	MC4-EVO2A
Module weight	24.5 kg
Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	927 kg
Modules per 40' HQ container	936 pcs (Subject to sales contract)



① Refer to ATLAS DUO N48-TYPE installation manual or contact technical department.
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

ELECTRICAL SPECIFICATIONS

STC: Irradiance 1000W/m², Cell Temperature 25° C, AM=1.5, Power measurement tolerance: ±3%

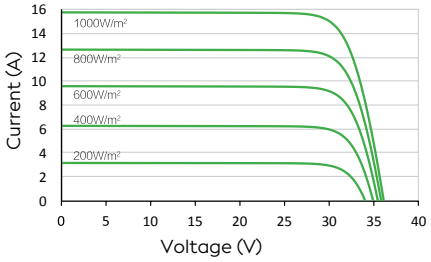
Rated output (Pmpp / Wp)	450	455	460	465
Rated voltage (Vmpp / V)	30.51	30.65	30.78	30.80
Rated current (Impp /A)	14.75	14.85	14.94	15.10
Open circuit voltage (Voc / V)	36.59	36.75	36.91	36.93
Short circuit current (Isc /A)	15.61	15.71	15.81	15.84
Module efficiency	22.5%	22.8%	23.0%	23.3%

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

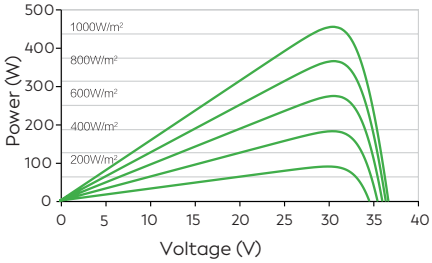
Rated output (Pmpp / Wp)	495.9	501.4	506.9	512.4
Rated voltage (Vmpp / V)	30.52	30.66	30.79	30.81
Rated current (Impp /A)	16.25	16.35	16.46	16.63
Open circuit voltage (Voc / V)	36.60	36.76	36.92	36.94
Short circuit current (Isc /A)	17.28	17.39	17.50	17.53

Curve

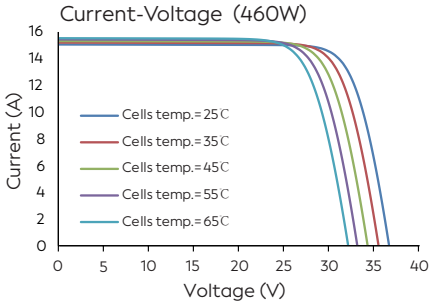
Current-Voltage (460W)



Power-Voltage (460W)



Current-Voltage (460W)



Temperature Ratings (STC)

Temperature coefficient (Pmpp)	-0.29%/° C
Temperature coefficient (Isc)	+0.043%/° C
Temperature coefficient (Voc)	-0.25%/° C

Operating Parameters

Operating Temperature	-40° C~+85° C
Bifaciality (Pmpp)	80±5%
Junction box IP rating	IP 68
Max. series fuse rating	30 A
Max. system voltage (IEC/UL)	1500V_{DC}