



ENGINEERED IN IRELAND BY ACTIV8 ENERGIES



ATLAS Duo N48-Type

Engineered specifically for the Irish market



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.



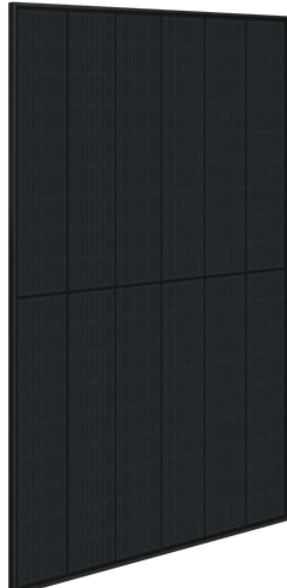
ENDURING HIGH PERFORMANCE

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

Power Range

23.3%

Max Module
Efficiency

≤ 0.4%

30 Year
Degradation

25

Year Product
Warranty

30

Linear Power
Warranty



ISO 9001:2015:ISO Quality Management System
ISO 14001:2015:ISO Environment Management System
ISO 45001:Occupational Health and Safety
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TÜVNORD

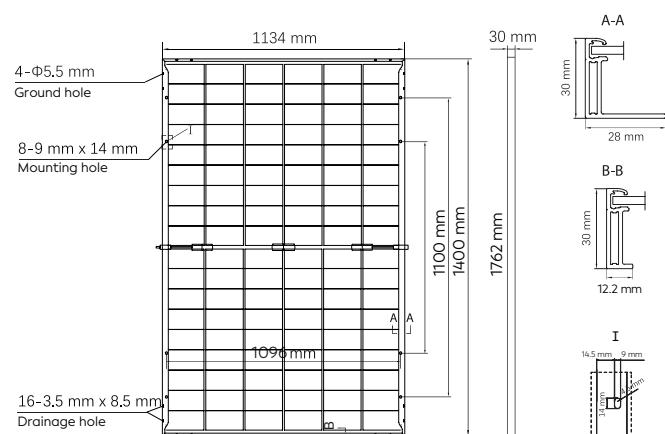


Tier 1
BloombergNEF

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 mm ² / 12 AWG
① Maximum 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

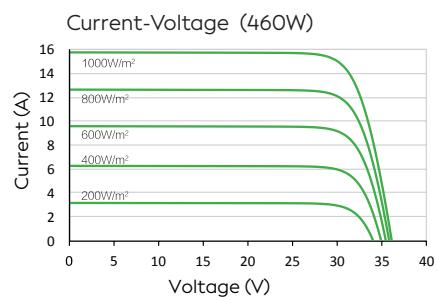
Temperature Ratings (STC)

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

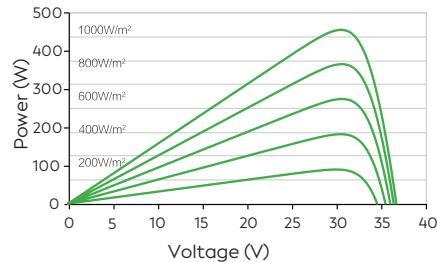
Operating Parameters

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}

Curve



Power-Voltage (460W)



Current-Voltage (460W)

