



Electrolux

Ultra Black shingled module ES-M3057U-S(G12)



410-420 Wp
305 G12-based
shingled cells



More converting surface,
more energy outputs
Outstanding sleek optics



Comprehensively certified
15 year product warranty
(optionally extendable)
25 year power warranty

ES-M3057U-S(G12) / ULTRA BLACK SHINGLED MODULE

PRODUCT SERIES & NAMECODE (PNC)				
ELECTROLUX				
ES-M3057U-S(G12)-410/415/420/HV				
black frame, black backsheet				

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}				
Nominal Power (Pmax)	[Wp]	410	415	420
Power Sorting ³	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	34.4	34.4	34.5
Maximum Power Current (Imp)	[A]	11.97	12.08	12.19
Open Circuit Voltage (Voc)	[V]	41.4	41.5	41.6
Short Circuit Current (Isc)	[A]	12.65	12.80	12.92
Module Efficiency (ηm)	[%]	20.6	20.9	21.1
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	25	25	25

ELECTRICAL CHARACTERISTICS AT NMOT ⁴				
Maximum Power (Pmax)	[W]	309	312	316
Maximum Power Voltage (Vmp)	[V]	32.8	32.8	32.9
Maximum Power Current (Imp)	[A]	9.41	9.53	9.62
Open Circuit Voltage (Voc)	[V]	39.5	39.6	39.7
Short Circuit Current (Isc)	[A]	10.19	10.31	10.41

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	305
	Dimensions [mm]	G12-based shingles
Front glass	high-transparency	
	Thickness [mm] / [in]	3.2 / 0.126
Backsheet	Black	
Encapsulant	EVA	
Frame	Anodized aluminum alloy	black
Junction box	Split-type	
	Bypass diodes	2
UV-resistant cables	Length [mm] / [in]	1300 / 51.18
	Section [mm ²]	4
Connectors	MC4	
Dimensions	H x L x W [mm]	1812 x 1096 x 30
	H x L x W [in]	71.34 x 43.15 x 1.18
Weight	[kg] / [lbs]	20.8±0.3 / 45.84±0.66
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class C	

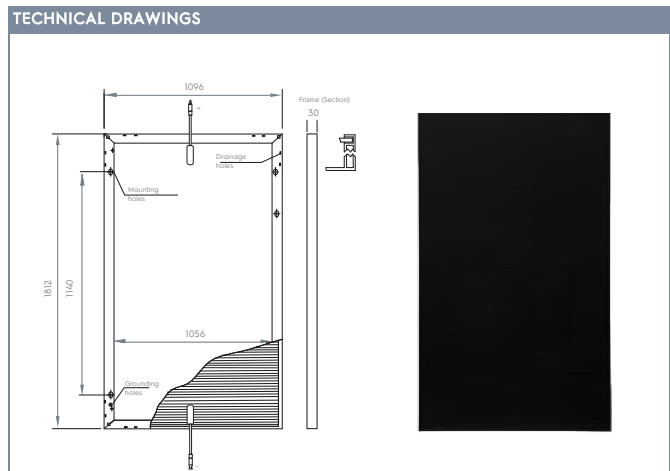
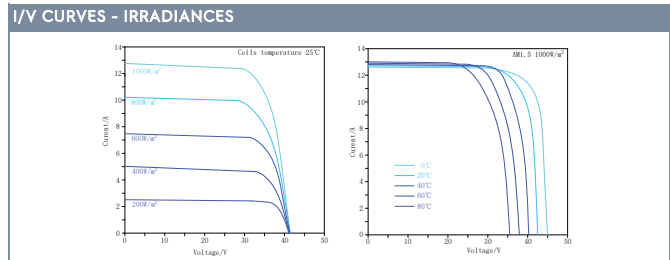
PACKAGING		
Packing configuration	[pcs/pallet]	36 (24 pallets) + 30 (2 pallets)
Loading capacity	[pcs/40 ft container]	924

NOTES	
1-Standard Test Conditions (STC): Irradiance 1000 W/m ² , Air Mass AM = 1.5, Cell Temperature 25°C	
2-Measurement tolerances (IEC 61215:2016): Pmax±3%, Voc±3%, Isc±3%	
3-Electrolux photovoltaic modules are classified according to a principle of positive power tolerance: the Power Output measured at STC of the delivered modules exceeds their assigned Nameplate Nominal Power	
4-NMOT: Nominal operating temperature of module, Irradiance 800 W/m ² , Wind Speed 1m/s; Ambient Temperature 20°C, Air Mass AM=1.5	
5-Full text of the Warranty Terms available at: www.electroluxsolar.com . The Extended Warranty is a separate offer. If not offered by your distributor, the standard warranty conditions apply.	
6-(PRE/GB) No less than 98% of the minimum "Peak Power at STC" in the first year; power output decline no more than 0.55% per year thereafter, ending with 84.8%.	
Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079 ") / Version 2022.09.V1.EN © Solar Solutions Group. Specifications in this datasheet are subject to change without notice.	
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CERTIFICATIONS		
System	ISO 9001, ISO 14001, ISO 45001	
Product	IEC / EN 61215-1:2016; IEC / EN 61215-1:2016; IEC 61215-2:2016 / EN 61215-2:2017 • AC:2017 • AC:2018; IEC 61730-1:2016 / EN IEC 61730-1:2018 • AC:2018; IEC 61730-2:2016 / EN IEC 61730-2:2018 • AC:2018	

WARRANTIES		
Product warranty ⁵	[years]	15 (opt. ext. to 20)
Performance warranty (linear) ⁶	[years]	25

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	42.3 (±2)
Pmax Temp. Coefficient (γ)	[%/°C]	-0.34
Voc Temp. Coefficient (β)	[%/°C]	-0.27
Isc Temp. Coefficient (α)	[%/°C]	0.04
Operating temperature	[°C]	-40~+85



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