



Electrolux

Ultra Black shingled module ES-M3207U-S(G12)



430-435 Wp
320 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-M3207U-S(G12) / ULTRA BLACK SHINGLED MODULE

PRODUCT SERIES & NAMECODE (PNC)		
ELECTROLUX		
AS-M3207U-S(G12)-430/435/HV		
black frame, black backsheet		

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}			
Nominal Power (Pmax)	[Wp]	430	435
Power Sorting ³	[W]	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	36.1	36.2
Maximum Power Current (Imp)	[A]	11.92	12.02
Open Circuit Voltage (Voc)	[V]	43.5	43.6
Short Circuit Current (Isc)	[A]	12.68	12.79
Module Efficiency (ηm)	[%]	20.7	20.9
Maximum System Voltage	[V]	1500	1500
Series Fuse Maximum Rating	[A]	25	25

ELECTRICAL CHARACTERISTICS AT NMOT ⁴			
Maximum Power (Pmax)	[W]	324	328
Maximum Power Voltage (Vmp)	[V]	34.4	34.5
Maximum Power Current (Imp)	[A]	9.41	9.49
Open Circuit Voltage (Voc)	[V]	41.5	41.6
Short Circuit Current (Isc)	[A]	10.23	10.32

MECHANICAL CHARACTERISTICS			
Solar cells	monocrystalline [pcs]	320	
	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]	1500 / 59.05	
	Section [mm ²]	4	
Connectors	MC4		
Dimensions	H x L x W [mm]	1899 x 1096 x 30	
	H x L x W [in]	74.76 x 43.15 x 1.18	
Weight	[kg] / [lbs]	21.8 / 48.04	
Maximum load	Wind / Snow [Pa]	2400 / 5400	
Fire Class	Class C		

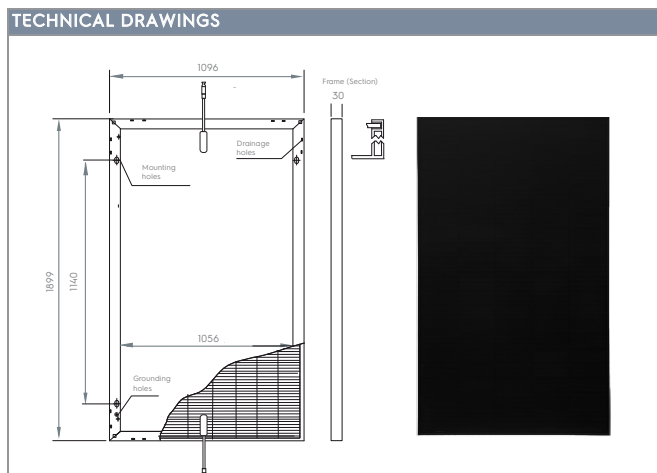
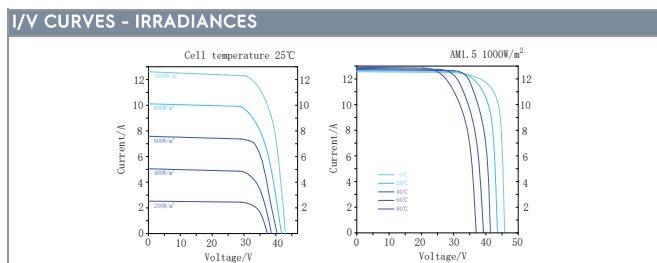
PACKAGING			
Packing configuration	[pcs/pallet]		36
Loading capacity	[pcs/40 ft container]		864

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, 1-1: 2016), IEC 61215 -2:2016, EN 61215 -2:2017-AC2017-AC2018, IEC 61730 (-1, -2:2016), EN 61730-1/-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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