

Photovoltaic module
ES-M1087B-H(M10)



420-430 Wp
108 monocrystalline
half-cut solar cells (M10)



High efficiency thanks to
N-Type cells (TopCon),
premium black look



Comprehensively certified
15 year product warranty
30 year power warranty

ES-M1087B-H(M10) / PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)	
Electrolux	
ES-M1087B-H(M10)-420/425/430/HV	
Black frame, black backsheet	

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}				
Nominal Power (Pmax)	[Wp]	420	425	430
Power Sorting ³	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	31.52	31.68	31.84
Maximum Power Current (Imp)	[A]	13.32	13.42	13.51
Open Circuit Voltage (Voc)	[V]	38.17	38.33	38.49
Short Circuit Current (Isc)	[A]	14.15	14.20	14.25
Module Efficiency (ηm)	[%]	21.5	21.8	22.0
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	25	25	25

ELECTRICAL CHARACTERISTICS AT NMOT ⁴				
Maximum Power (Pmax)	[W]	316.0	320.0	324.0
Maximum Power Voltage (Vmp)	[V]	29.34	29.50	29.66
Maximum Power Current (Imp)	[A]	10.77	10.85	10.92
Open Circuit Voltage (Voc)	[V]	36.24	36.40	36.56
Short Circuit Current (Isc)	[A]	11.37	11.43	11.49

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	108
	Dimensions [mm]	M10 Half-cut [182 x 91]
Front glass	high-transparency	
	Thickness [mm] / [in]	3.2 / 0.13
Backsheet	Black	
Encapsulant	EVA	
Frame	Anodized aluminum alloy	black
Junction box	Split-type, IP68	
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	1200 / 47.24
	Section [mm ²]	4
Connectors	MC4 original	
Dimensions	H x L x W [mm]	1722 x 1134 x 30
	H x L x W [in]	67.79 x 44.65 x 1.18
Weight	[kg] / [lbs]	20.5 / 45.19
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class C	

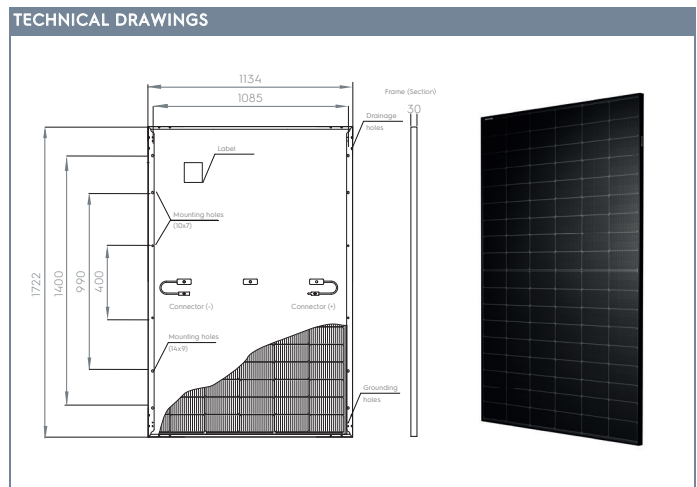
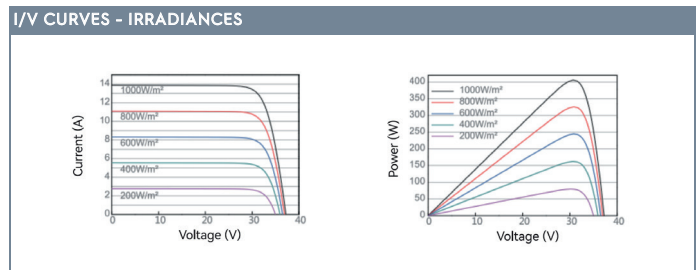
PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	936

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-NOCT: Nominal Operating Cell Temperature, 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 . If not offered by your distributor, the standard warranty conditions apply.
6-(HE/GB) No less than 99% of the minimum "Peak Power at STC" in the first year; power output decline no more than 0.4% per year thereafter, ending with 87.40%.
Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079 ") / Version 2023.06.01.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	IEC61215-1:2016, IEC61215-1:2016, IEC61215-2:2016, IEC61730-1:2016, IEC61730-2:2016, EN61215-1:2016, EN61215-1:2016, EN61215-2:2017, EN IEC61730-1:2018, EN IEC61730-2:2018

WARRANTIES		
Product warranty ⁵	[years]	15 (opt. ext. to 20)
Performance warranty (linear) ⁶	[years]	30

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	45 (±2)
Pmax Temp. Coefficient (γ)	[%°C]	-0.30
Voc Temp. Coefficient (β)	[%°C]	-0.25
Isc Temp. Coefficient (α)	[%°C]	0.046
Operating temperature	[°C]	-40~+85



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