



Electrolux

Photovoltaic module ES-M1082-H(M10)



400-410 Wp
108 M10-based
half-cut cells



M10 cells for maximum
efficiency; outstanding
sleek optics



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

ES-M1082B-H(M10) / PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)			
Electrolux			
ES-M1082B-H(M10)-400/405/410			
black frame, black backsheet			

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}				
Nominal Power (Pmax)	[Wp]	400	405	410
Power Sorting ³	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	30.35	30.52	30.69
Maximum Power Current (Imp)	[A]	13.19	13.28	13.37
Open Circuit Voltage (Voc)	[V]	37.21	37.33	37.45
Short Circuit Current (Isc)	[A]	13.59	13.68	13.77
Module Efficiency (ηm)	[%]	20.65	20.91	21.17
Maximum System Voltage	[V]	1000	1000	1000
Series Fuse Maximum Rating	[A]	25	25	25

ELECTRICAL CHARACTERISTICS AT NMOT ⁴				
Maximum Power (Pmax)	[W]	321	325	329
Maximum Power Voltage (Vmp)	[V]	30.28	30.45	30.62
Maximum Power Current (Imp)	[A]	10.61	10.68	10.75
Open Circuit Voltage (Voc)	[V]	36.88	37.00	37.12
Short Circuit Current (Isc)	[A]	10.82	10.89	10.96

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	108
	Dimensions [mm]	M10 Half-cut [182 x 91]
Front glass	high-transparency	
	Thickness [mm] / [in]	2.8 / 0.11
Backsheet	Black	
Encapsulant	EVA	
Frame	Anodized aluminum alloy	black
Junction box	Split-type	
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	1100 / 43.30
	Section [mm ²]	4
Connectors	MC4	
Dimensions	H x L x W [mm]	1708 x 1134 x 30
	H x L x W [in]	67.24 x 44.64 x 1.18
Weight	[kg] / [lbs]	20 / 44.8
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class C	

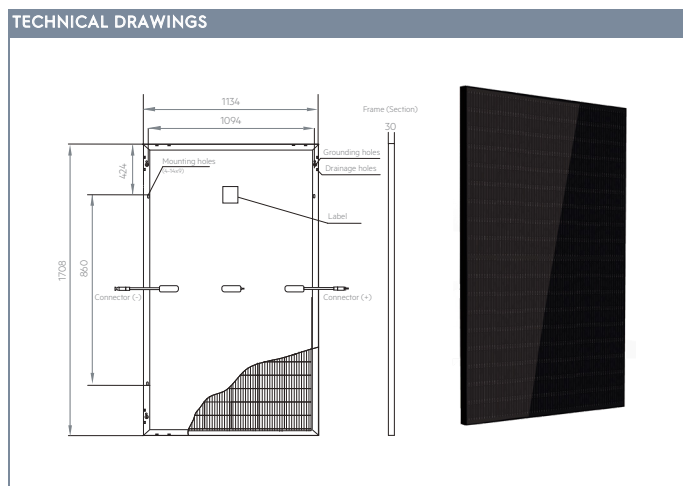
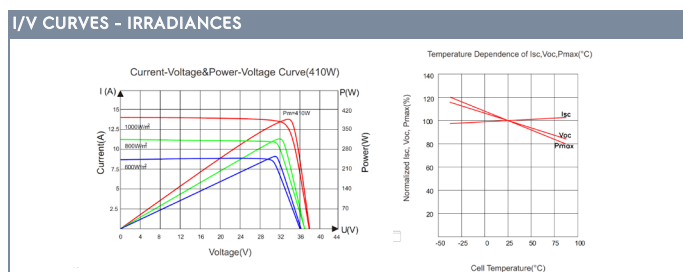
PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	936

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-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-(HE/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.V2 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 61215-1:2016, IEC 61215-1-1:2016, IEC 61215-2:2016, IEC 61730-1/-2:2016, IEC 61215-1:2016, IEC 61215-1-1:2016, IEC 61730-1/-2:2016	

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

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	42 (±3)
Pmax Temp. Coefficient (γ)	[%/°C]	-0.330
Voc Temp. Coefficient (β)	[%/°C]	-0.246
Isc Temp. Coefficient (α)	[%/°C]	0.0448
Operating temperature	[°C]	-40--85



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