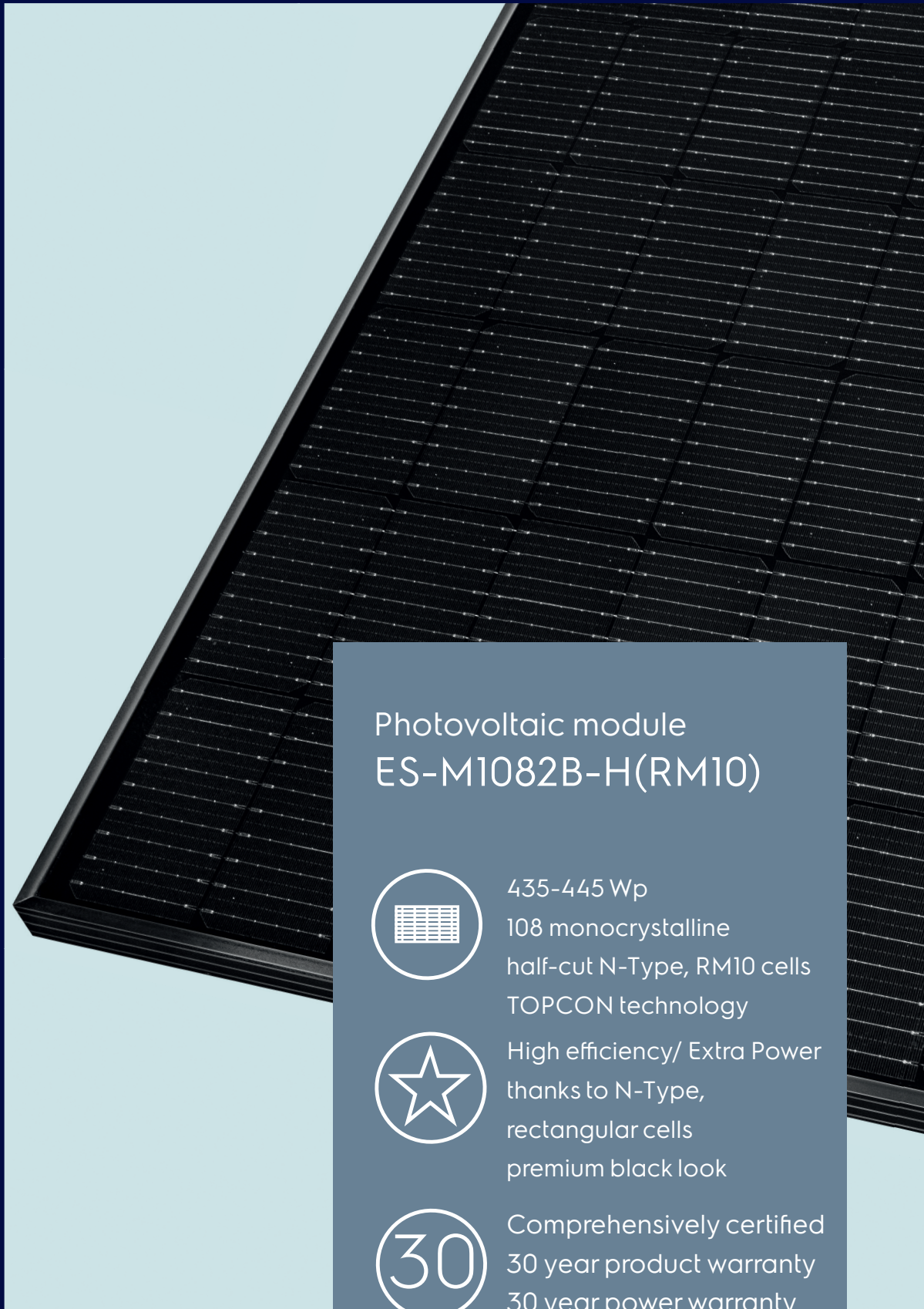




# Electrolux



## Photovoltaic module ES-M1082B-H(RM10)



435-445 Wp

108 monocrystalline  
half-cut N-Type, RM10 cells  
TOPCON technology



High efficiency/ Extra Power  
thanks to N-Type,  
rectangular cells  
premium black look



Comprehensively certified  
30 year product warranty  
30 year power warranty

**ES-M1082B-H(RM10) / HALF-CUT NTYPE TOPCON PHOTOVOLTAIC MODULE**

PRODUCT SERIES & NAMECODE (PNC)	
ELECTROLUX	
ES-M1082B-H(RM10)-435/440/445	
Black frame, black backsheet	

ELECTRICAL CHARACTERISTICS AT STC <sup>1,2</sup>				
Nominal Power (Pmax)	[Wp]	435	440	445
Power Sorting <sup>3</sup>	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	32.67	32.89	33.11
Maximum Power Current (Imp)	[A]	13.33	13.39	13.45
Open Circuit Voltage (Voc)	[V]	39.02	39.22	39.42
Short Circuit Current (Isc)	[A]	13.87	13.93	13.99
Module Efficiency (ηm)	[%]	21.77	22.02	22.27
Maximum System Voltage	[V]	1000	1000	1000
Maximum Series Fuse	[A]	25	25	25

ELECTRICAL CHARACTERISTICS AT NMOT <sup>4</sup>				
Maximum Power (Pmax)	[W]	327	331	335
Maximum Power Voltage (Vmp)	[V]	30.45	30.65	30.86
Maximum Power Current (Imp)	[A]	10.79	10.84	10.89
Open Circuit Voltage (Voc)	[V]	37.13	37.32	37.51
Short Circuit Current (Isc)	[A]	11.15	11.20	11.25

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	108
	Dimensions [mm]	RM10 Half-cut [182 x199]
Front glass	high-transparency	
	Thickness [mm] / [in]	3.2 / 0.125
Backsheet	Black	
Encapsulant	EVA	
Frame	Anodized aluminum alloy	black
Junction box	Split-type, IP68	
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	1100/43.30
	Section [mm <sup>2</sup> ] / [AWG]	4.0/12.0
Connectors	MC4 Original	
Dimensions	H x L x W [mm]	1762 x 1134 x 30
	H x L x W [in]	69.37 x 44.64 x 1.18
Weight	[kg] / [lbs]	21.2 / 46.73
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class C/Type I	

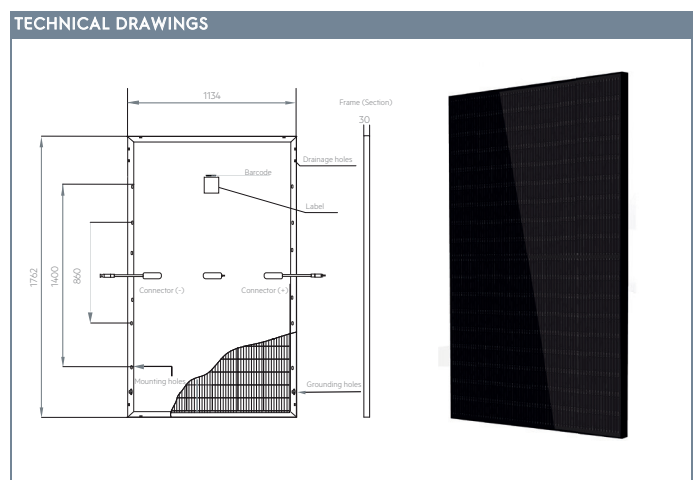
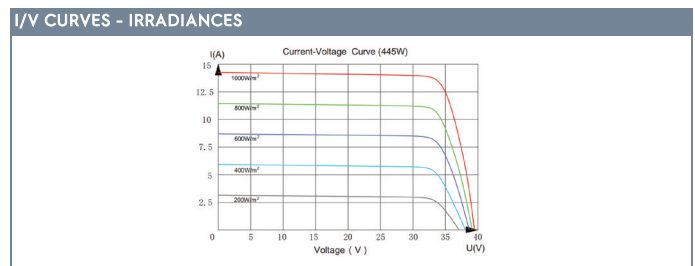
PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	936

NOTES	
1-Standard Test Conditions (STC): Irradiance 1000 W/m <sup>2</sup> , Air Mass AM = 1.5, Cell Temperature 25°C	
2-Measurement tolerances (IEC 61215:2016):Pmax±3%, Voc±3%, Isc±4%	
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 <sup>2</sup> , Wind Speed 1m/s, Ambient Temperature 20°C, Air Mass AM=1.5	
5-Full text of the Warranty Terms available at: <a href="http://www.electroluxsolar.com">www.electroluxsolar.com</a> .	
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 87.4%.	
Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079 ") / Version 2023.12.01.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	IEC 61215-1:2016, IEC 61215-1-1:2016, IEC 61215-2:2016, IEC 61730-1/-2:2016, EN 61215-1:2016, EN 61215-1-1:2016, EN IEC 61730-1/-2:2018, EN IEC 61730-1/-2:2018/AC:2018-06	

WARRANTIES		
Product warranty <sup>4</sup>	[years]	30
Performance warranty (linear) <sup>5</sup>	[years]	30

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	45 (±2)
Pmax Temp. Coefficient (γ)	[%/°C]	-0.31
Voc Temp. Coefficient (β)	[%/°C]	-0.25
Isc Temp.Coefficient (α)	[%/°C]	0.06
Operating temperature	[°C]	-40~+85


**CONTACT US**

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