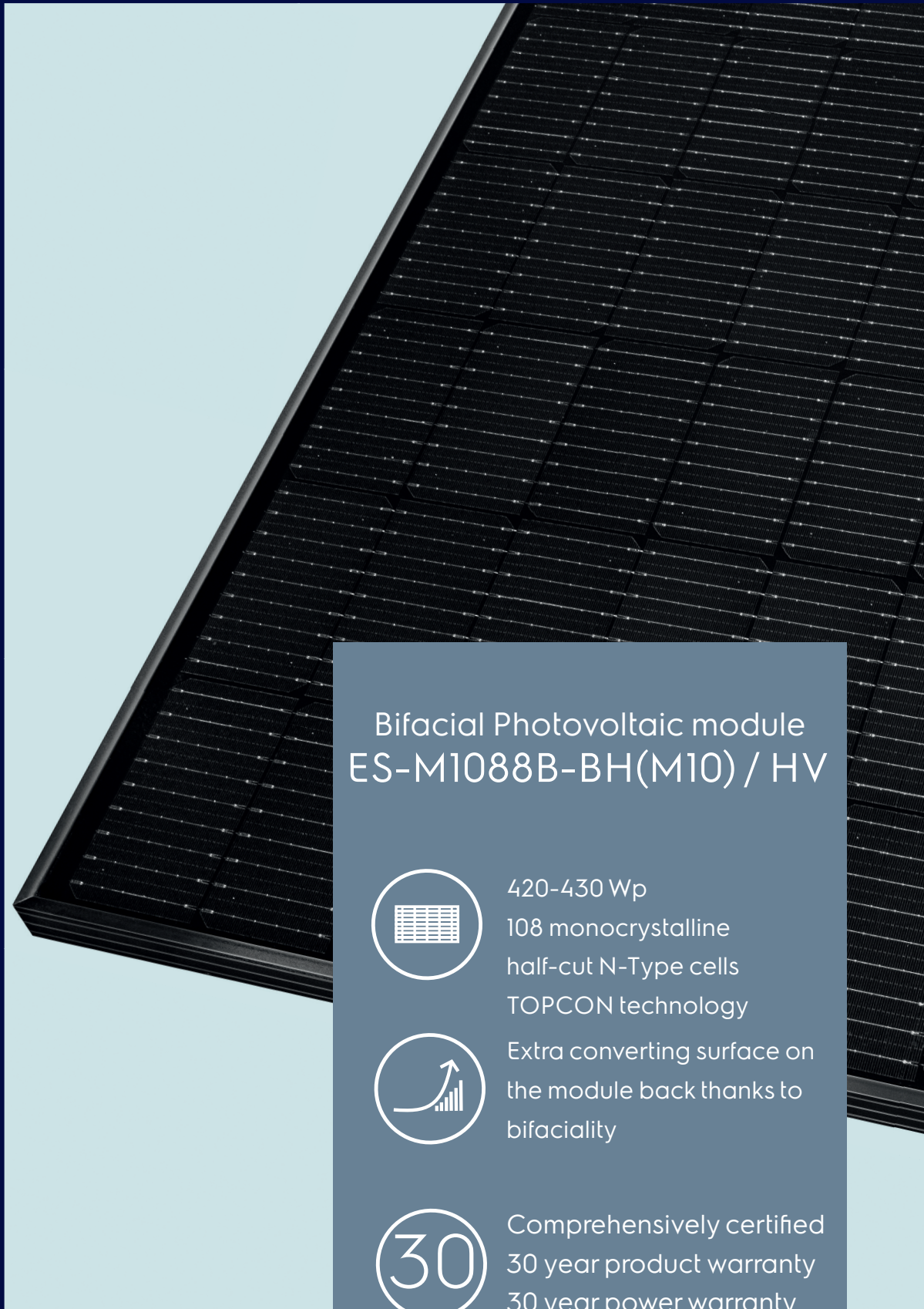




# Electrolux



## Bifacial Photovoltaic module ES-M1088B-BH(M10) / HV



420-430 Wp  
108 monocrystalline  
half-cut N-Type cells  
TOPCON technology



Extra converting surface on  
the module back thanks to  
bifaciality



Comprehensively certified  
30 year product warranty  
30 year power warranty

**ES-M1088B-BH(M10) / HV / BIFACIAL GLASS-GLASS PHOTOVOLTAIC MODULE**

PRODUCT SERIES & NAMECODE (PNC)			
ELECTROLUX			
ES-M1088B-BH(M10)-420/425/430/HV			
Black glass, Black frame			

ELECTRICAL CHARACTERISTICS AT STC <sup>1,2</sup>				
Nominal Power (Pmax)	[Wp]	420	425	430
Power Sorting <sup>3</sup>	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	32.1	32.3	32.5
Maximum Power Current (Imp)	[A]	13.08	13.16	13.23
Open Circuit Voltage (Voc)	[V]	37.6	37.8	38
Short Circuit Current (Isc)	[A]	13.72	13.78	13.84
Module Efficiency (ηm)	[%]	21.51	21.76	22.02
Maximum System Voltage	[V]	1500	1500	1500
Maximum Series Fuse	[A]	30	30	30

ELECTRICAL CHARACTERISTICS AT NOCT <sup>4</sup>				
Maximum Power (Pmax)	[W]	316.0	320.0	324.0
Maximum Power Voltage (Vmp)	[V]	30.50	30.69	30.88
Maximum Power Current (Imp)	[A]	10.36	10.42	10.47
Open Circuit Voltage (Voc)	[V]	35.72	35.91	36.1
Short Circuit Current (Isc)	[A]	11.08	11.13	11.17

ELECTRICAL SPECIFICATIONS - INTEGRATED POWER / POWER GAIN <sup>5</sup>					
Bifaciality factor	80 ± 5%				
Pmax Gain		10%	15%	20%	25%
Maximum Power (Pmax)	[W]	468.0	489.0	510.0	531.2
Maximum Power Voltage (Vmp)	[V]	36.0	37.1	39.0	40.3
Maximum Power Current (Imp)	[A]	14.4	15.1	16.0	16.4
Open Circuit Voltage (Voc)	[V]	42.0	43.4	45.3	47.2
Short Circuit Current (Isc)	[A]	15.1	16.0	17.0	17.2

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	108
	Dimensions [mm]	M10 Half-cut [182 x 91]
Front glass	high-transparency	
	Thickness [mm] / [in]	2 / 0.08
Back glass	Black	2 / 0.08
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 <sup>2</sup> ] / [AWG]	4.0/12.0
Connectors	MC4 Compatible	
Dimensions	H x L x W [mm]	1722 x 1134 x 30
	H x L x W [in]	67.79 x 44.64 x 1.18
Weight	[kg] / [lbs]	24.0 / 52.90
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class A	

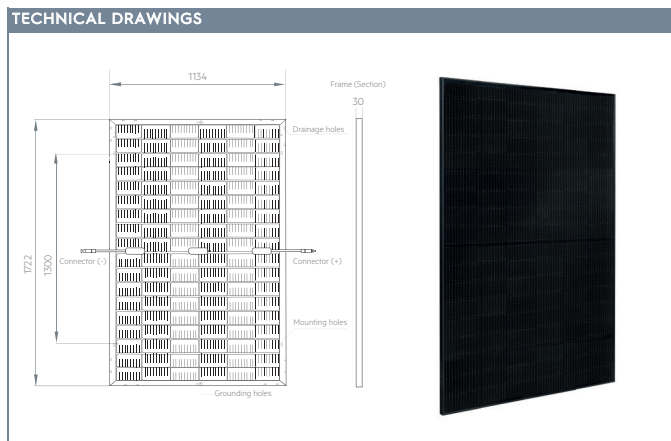
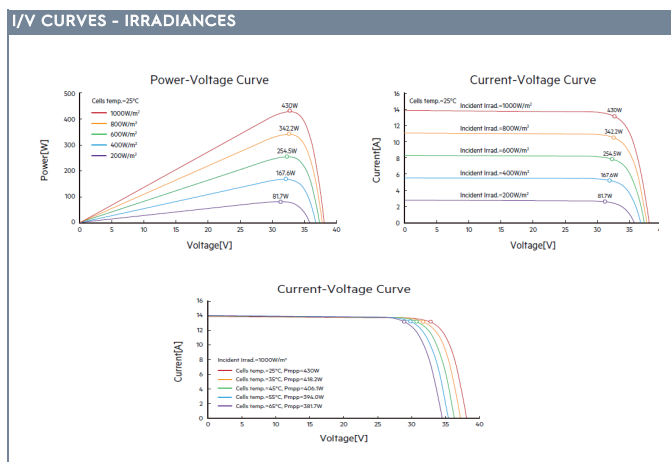
PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	936

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±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 Cell Temperature , Irradiance 800 W/m <sup>2</sup> , Wind Speed 1m/s; Ambient Temperature 20°C, Air Mass AM=1.5	
5-Electrical characteristics with different rear power gain. Reference to 425 W	
6-Full text of the Warranty Terms available at: <a href="http://www.electroluxsolar.com">www.electroluxsolar.com</a> .	
7-(PRE/GG) 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.	
Electrolux is a registered trademark used under license from AB Electrolux (publ).	

CERTIFICATIONS		
System	ISO 9001, ISO 14001, ISO 45001	
Product	IEC61215, IEC61730	

WARRANTIES		
Product warranty <sup>6</sup>	[years]	30
Performance warranty (linear) <sup>7</sup>	[years]	30

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	45 (±2)
Pmax Temp. Coefficient (γ)	[%°C]	-0.3
Voc Temp. Coefficient (β)	[%°C]	-0.25
Isc Temp. Coefficient (α)	[%°C]	0.046
Operating temperature	[°C]	-40~+85


**CONTACT US**

[info@electroluxsolar.com](mailto:info@electroluxsolar.com)  
[www.electroluxsolar.com](http://www.electroluxsolar.com)