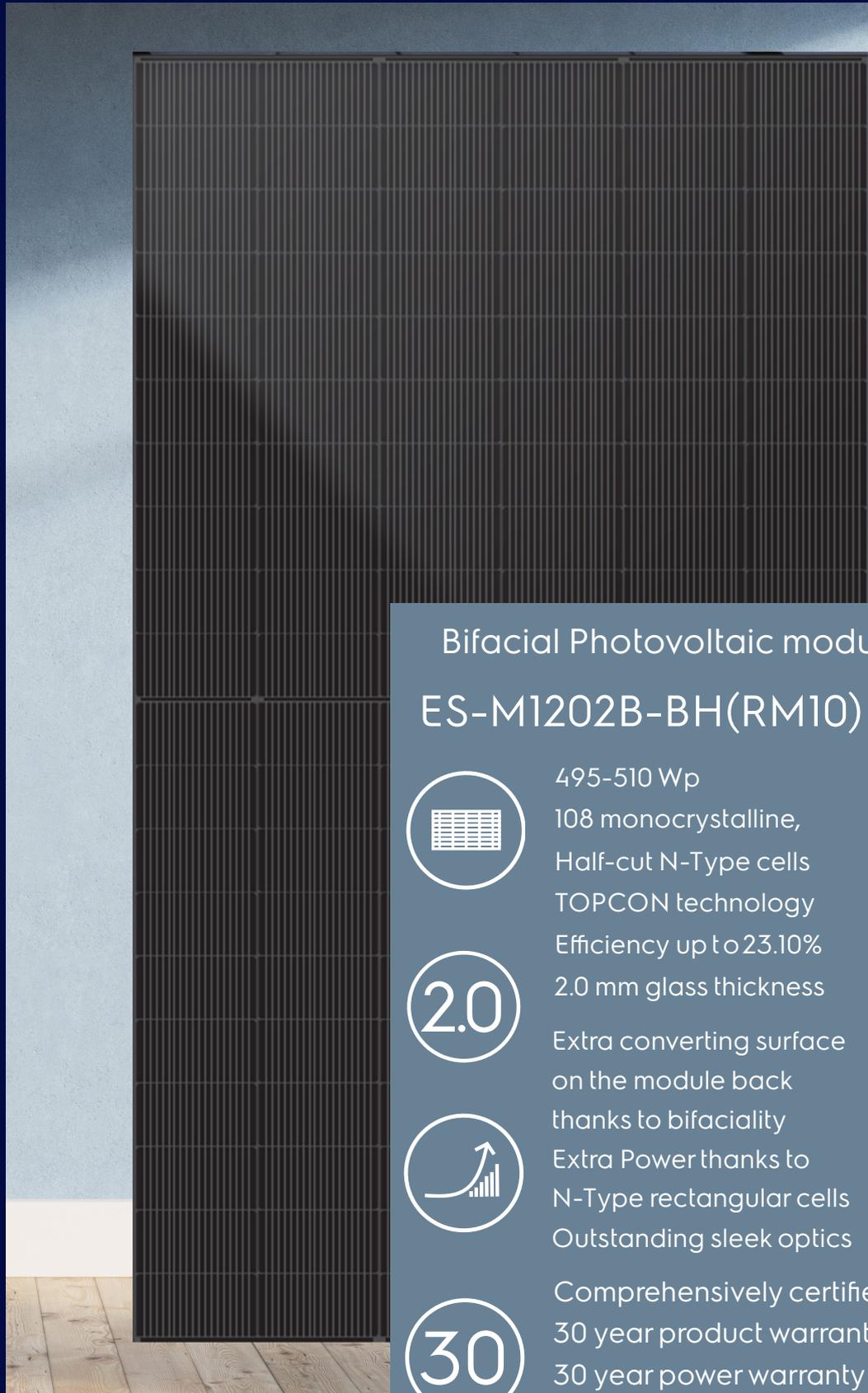




Electrolux



Bifacial Photovoltaic module

ES-M1202B-BH(RM10) /HV



495-510 Wp

108 monocrystalline,
Half-cut N-Type cells
TOPCON technology
Efficiency up to 23.10%



2.0 mm glass thickness

Extra converting surface
on the module back
thanks to bifaciality



Extra Power thanks to
N-Type rectangular cells
Outstanding sleek optics



Comprehensively certified
30 year product warranty
30 year power warranty
30 year exchange &
refund service

ES-M1202B-BH(RM10) / HV / BIFACIAL GLASS-GLASS PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)	
ELECTROLUX HIGH EFFICIENCY SERIES	
ES-M1202B-BH(RM10)-495/500/505/510/HV	
Black glass, Black frame	

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}					
Nominal Power (Pmax)	[Wp]	495	500	505	510
Power Sorting ³	[W]	0-5	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	36.67	36.87	37.07	38.06
Maximum Power Current (Imp)	[A]	13.50	13.56	13.62	13.42
Open Circuit Voltage (Voc)	[V]	44.02	44.22	44.42	45.10
Short Circuit Current (Isc)	[A]	13.98	14.04	14.10	14.34
Module Efficiency (ηm)	[%]	22.4	22.6	22.8	23.1
Maximum System Voltage	[V]	1500	1500	1500	1500
Series Fuse Maximum Rating	[A]	30	30	30	30

ELECTRICAL CHARACTERISTICS AT NMOT ⁴					
Maximum Power (Pmax)	[W]	373	376	380	384
Maximum Power Voltage (Vmp)	[V]	34.25	34.44	34.63	35.59
Maximum Power Current (Imp)	[A]	10.90	10.95	10.99	10.79
Open Circuit Voltage (Voc)	[V]	41.65	41.84	42.03	42.47
Short Circuit Current (Isc)	[A]	11.26	11.31	11.35	11.62

ELECTRICAL SPECIFICATIONS - INTEGRATED POWER / POWER GAIN ⁵					
Bifaciality Factor	85 ± 5%				
Pmp Gain		10%	15%	20%	25%
Maximum Power (Pmax)	[W]	561	587	612	638
Maximum Power Voltage (Vmp)	[V]	42.00	44.00	46.00	48.00
Maximum Power Current (Imp)	[A]	15.00	15.43	16.10	17.00
Open Circuit Voltage (Voc)	[V]	50.00	52.00	54.12	56.37
Short Circuit Current (Isc)	[A]	16.00	16.49	17.20	18.00

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	120
Dimensions [mm]	RM10 Bifacial Half-cut [182 x 199]	
Front glass	high-transparency	
	Thickness [mm] / [in]	2 / 0.08
Back glass	Transparent	2 / 0.08
Encapsulant	EVA	transparent
Frame	Anodized aluminum alloy	black color
Junction box	Split-type, IP68	
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	1300 / 51.18
	Section [mm ² / AWG]	4/12
Connectors	MC4 Original	
Dimensions	H x L x W [mm]	1950 x 1134 x 30
	H x L x W [in]	76.77 x 44.65 x 1.18
Weight	[kg] / [lbs]	26.8 / 59.07
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class C	

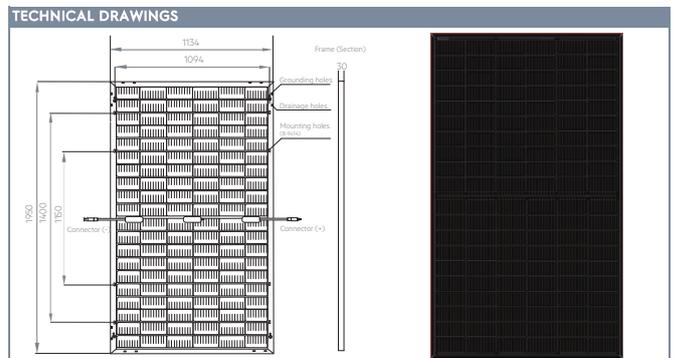
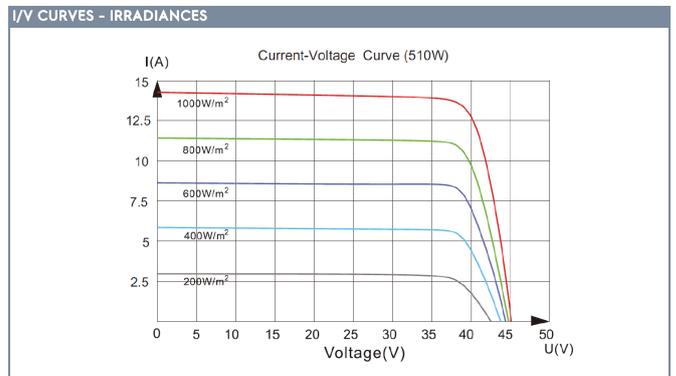
PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	864

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±3.0%, Voc±3.0%, Isc±4.0%	
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-Electrical characteristics with different rear power gain. Reference to 510 W	
6-Full text of the Warranty Terms available at: www.electroluxsolar.com	
7-(HE/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 2025.04.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 IEC 61215-1:2021, IEC 61730-1:2016, EN IEC 61730-1:2018, IEC 61730-2:2016, EN IEC 61730-2:2018, IEC/EN IEC 61215-1:2021, IEC/EN IEC 61215-2:2021	

WARRANTIES		
Product warranty ⁶	[years]	30
Performance warranty (linear) ⁷	[years]	30

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	42 (±2)
Pmax Temp. Coefficient (γ)	[%/°C]	-0.29
Voc Temp. Coefficient (β)	[%/°C]	-0.25
Isc Temp. Coefficient (α)	[%/°C]	0.048
Operating temperature	[°C]	-40~+85


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