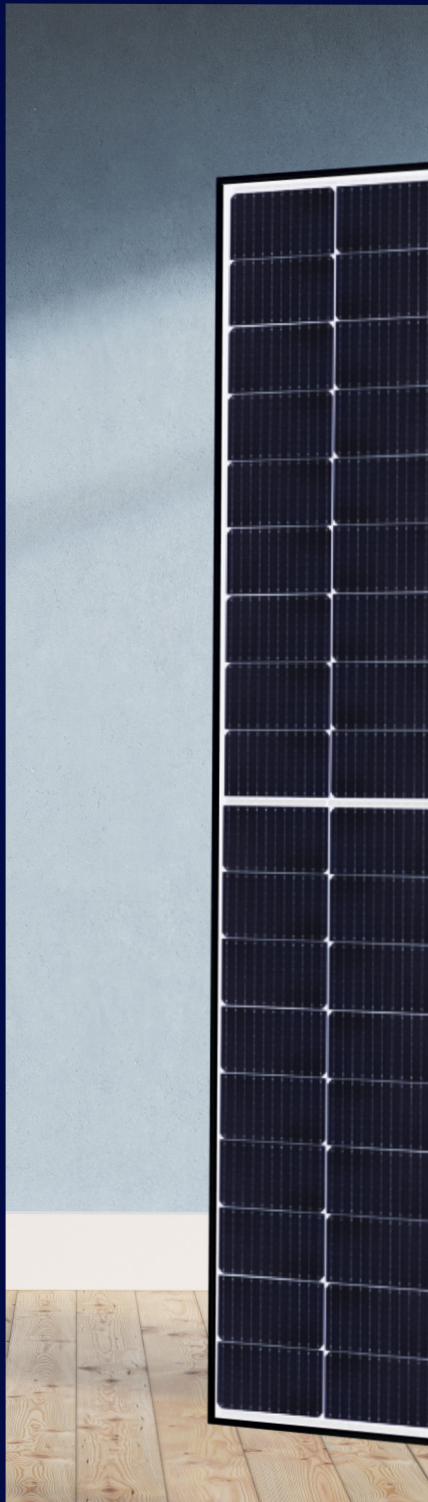




Electrolux



Bifacial Photovoltaic module ES-M1083W-BH(RM10) /HV ES-M1083Y-BH(RM10) /HV



500-515 Wp
108 monocrystalline,
Half-cut N-Type cells
TOPCON technology
Efficiency up to 23.20%



2.0 mm glass thickness
Extra converting surface
on the module back
thanks to bifaciality



Extra Power thanks to
N-Type, rectangular cells
Zero-Busbar integrated
interconnection



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

ES-M1083W-BH(RM10) / HV - ES-M1083Y-BH(RM10) / HV

BIFACIAL GLASS-GLASS PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)

ELECTROLUX HIGH EFFICIENCY SERIES

ES-M1083W-BH(RM10)-500/505/510/515/HV, white back side pattern (glazed glass), silver frame

ES-M1083Y-BH(RM10)-500/505/510/515/HV, white back side pattern (glazed glass), black frame

ELECTRICAL CHARACTERISTICS AT STC^{1,2}

Nominal Power (Pmax)	[Wp]	500	505	510	515
Power Sorting ³	[W]	0-5	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	34.02	34.15	34.29	34.42
Maximum Power Current (Imp)	[A]	14.70	14.79	14.87	14.96
Open Circuit Voltage (Voc)	[V]	40.89	41.05	41.21	41.37
Short Circuit Current (Isc)	[A]	15.52	15.61	15.70	15.79
Module Efficiency (ηm)	[%]	22.5	22.7	22.9	23.20
Maximum System Voltage	[V]	1500	1500	1500	1500
Maximum Series Fuse	[A]	30	30	30	30

ELECTRICAL SPECIFICATIONS - INTEGRATED POWER / POWER GAIN⁴

Bifaciality factor		85 ± 5%			
Pmax Gain		10%	15%	20%	25%
Maximum Power (Pmax)	[W]	561	587	612	638
Maximum Power Voltage (Vmp)	[V]	38.00	39.43	41.14	43.00
Maximum Power Current (Imp)	[A]	16.35	17.10	18.00	19.00
Open Circuit Voltage (Voc)	[V]	45.33	47.39	49.45	52.00
Short Circuit Current (Isc)	[A]	17.27	18.05	19.00	20.00

MECHANICAL CHARACTERISTICS

Solar cells	monocrystalline [pcs]	108
	Dimensions [mm]	RM10 Half-cut [182 x 199]
Front glass	high-transparency	
	Thickness [mm] / [in]	2.0 / 0.08
Back glass	High strengthened glass	2.0 / 0.08
Encapsulant	EVA	Transparent
Frame	Anodized aluminum alloy	silver or black
Junction box	Split-type, IP68	
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	1400/43.31
	Section [mm ² /AWG]	4.0/12.0
Connectors	MC4 Original	
Dimensions	H x L x W [mm]	1961 x 1134 x 30
	H x L x W [in]	77.20 x 44.65 x 1.18
Weight	[kg] / [lbs]	27.4 / 60.39
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class A	

PACKAGING

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

NOTES

1-Standard Test Conditions (STC): Irradiance 1000 W/m², 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-Electrical characteristics with different rear power gain. Reference to 510 W

5-Full text of the Warranty Terms available at: www.electroluxsolar.com.

6-(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 2025.02.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	EN / IEC 61215-1:2016, EN / IEC 61215-1-1:2016, IEC 61215-2:2016, IEC 61730-1/-2:2016, EN 61215-2:2017, EN IEC 61730-1/-2:2018	

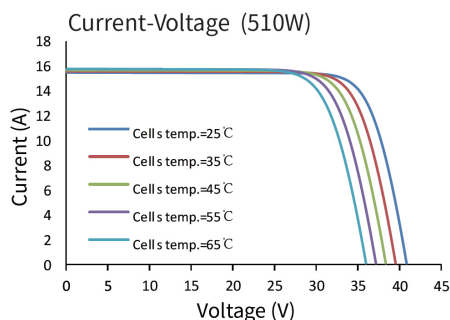
WARRANTIES

Product warranty ⁵	[years]	30
Performance warranty (linear) ⁶	[years]	30

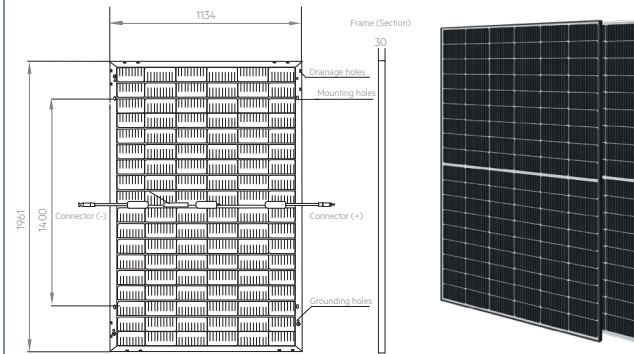
TEMPERATURE CHARACTERISTICS

NMOT	[°C]	45 (±2)
Pmax Temp. Coefficient (γ)	[%°C]	-0.29
Voc Temp. Coefficient (β)	[%°C]	-0.25
Isc Temp. Coefficient (α)	[%°C]	0.043
Operating temperature	[°C]	-40→85

I/V CURVES - IRRADIANCES



TECHNICAL DRAWINGS



CONTACT US

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