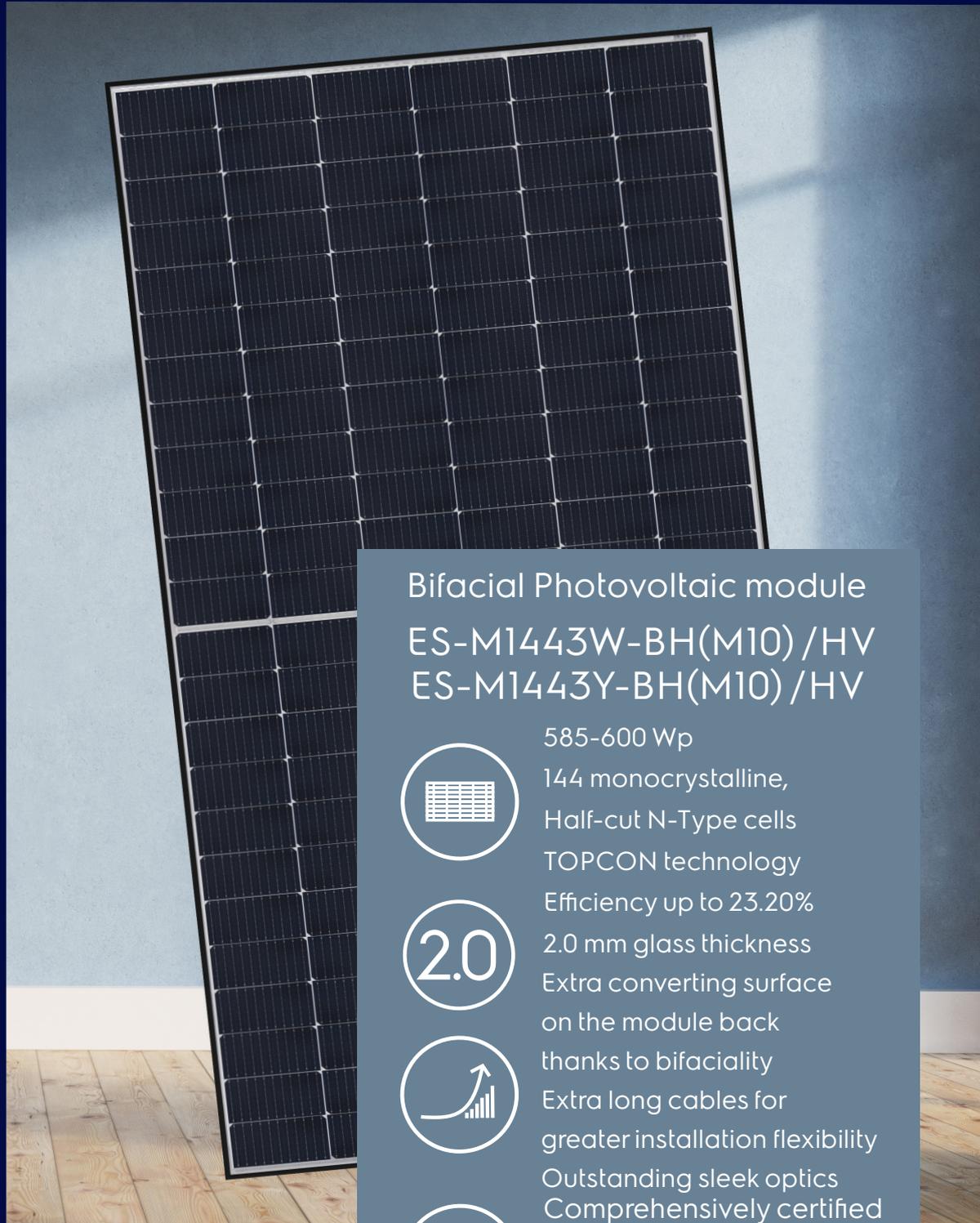




# Electrolux



## Bifacial Photovoltaic module ES-M1443W-BH(M10) /HV ES-M1443Y-BH(M10) /HV



585-600 Wp

144 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 long cables for  
greater installation flexibility



Outstanding sleek optics  
Comprehensively certified

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

## ES-M1443W-BH(M10) / HV - ES-M1443Y-BH(M10) / HV BIFACIAL GLASS-GLASS PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)	
ELECTROLUX PREMIUM SERIES	
ES-M1443W-BH(M10)- 585/590/595/600/HV, white back side pattern (glazed glass), silver frame	
ES-M1443Y-BH(M10)- 585/590/595/600/HV, white back side pattern (glazed glass), black frame	

ELECTRICAL CHARACTERISTICS AT STC <sup>1,2</sup>					
Nominal Power (Pmax)	[Wp]	585	590	595	600
Power Sorting <sup>3</sup>	[W]	0-5	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	43.27	43.45	43.61	43.78
Maximum Power Current (Imp)	[A]	13.52	13.58	13.64	13.70
Open Circuit Voltage (Voc)	[V]	51.50	51.70	51.90	52.10
Short Circuit Current (Isc)	[A]	14.36	14.45	14.53	14.61
Module Efficiency (ηm)	[%]	22.6	22.8	23.0	23.2
Maximum System Voltage	[V]	1500	1500	1500	1500
Maximum Series Fuse	[A]	30	30	30	30

ELECTRICAL CHARACTERISTICS AT NMOT <sup>4</sup>					
Maximum Power (Pmax)	[W]	439.9	443.7	447.4	451.2
Maximum Power Voltage (Vmp)	[V]	40.73	40.89	41.06	41.21
Maximum Power Current (Imp)	[A]	10.80	10.85	10.90	10.95
Open Circuit Voltage (Voc)	[V]	48.92	49.11	49.30	49.49
Short Circuit Current (Isc)	[A]	11.59	11.66	11.73	11.80

ELECTRICAL SPECIFICATIONS - INTEGRATED POWER / POWER GAIN <sup>5</sup>					
Bifaciality factor		80 ± 10%			
Pmpp Gain		10%	15%	20%	25%
Maximum Power (Pmax)	[W]	649	679	708	738
Maximum Power Voltage (Vmp)	[V]	48	50	52	54
Maximum Power Current (Imp)	[A]	15	16	16	17
Open Circuit Voltage (Voc)	[V]	57	59	62	65
Short Circuit Current (Isc)	[A]	16	17	17	18

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	144
	Dimensions [mm]	M10 Bifacial Half-cut [182 x 91]
Front glass	high-transparency	
	Thickness [mm] / [in]	2 / 0.08
Back glass	White back side pattern (glazed)	2 / 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]	1400/55.12
	Section [mm <sup>2</sup> ]	4
Connectors	MC4 Original	
Dimensions	H x L x W [mm]	2278 x 1134 x 30
	H x L x W [in]	89.68 x 44.65 x 1.18
Weight	[kg] / [lbs]	32.1 / 70.76
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class A	

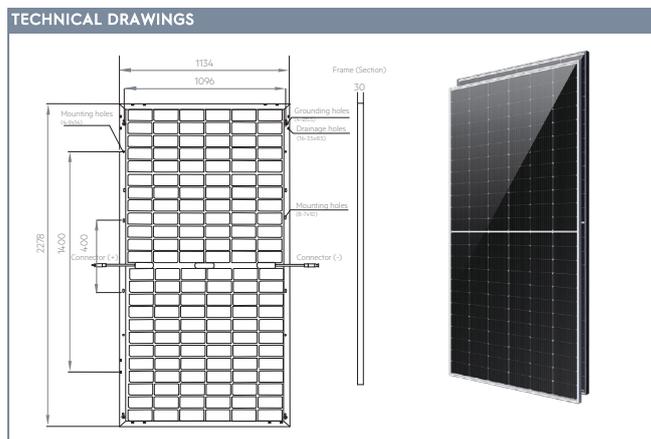
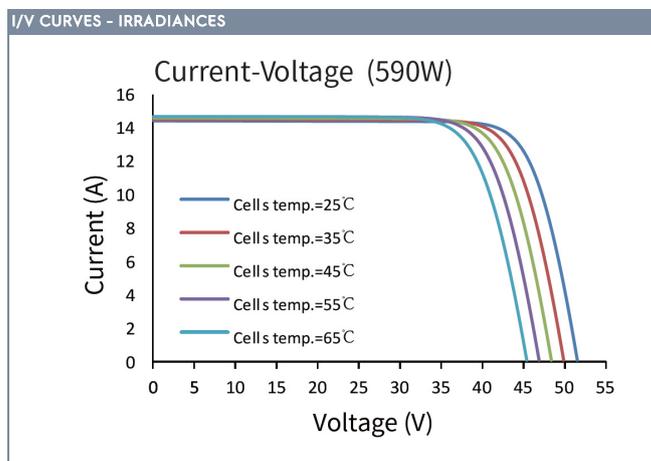
PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	720

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±3.0%, 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 module operating 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 590 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 2024.10.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/EN 61215-1:2016, IEC/EN 61215-1-1:2016, IEC 61215-2:2016, EN 61215-2:2017, IEC 61730-1:2016 / EN IEC 61730-1:2016, IEC 61730-2:2016 / EN IEC 61730-2:2016

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

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	41 (±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



### CONTACT US

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