


Meyer Burger Panel+ White XL

Product type: MB_WG144Cyz_XXX

540 – 560 Wp

For ground-mounted solar power plants: **Bifacial heterojunction high-performance solar module with SmartWire Connection Technology (SWCT®).**

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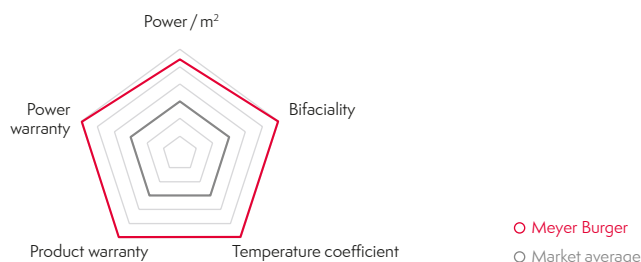
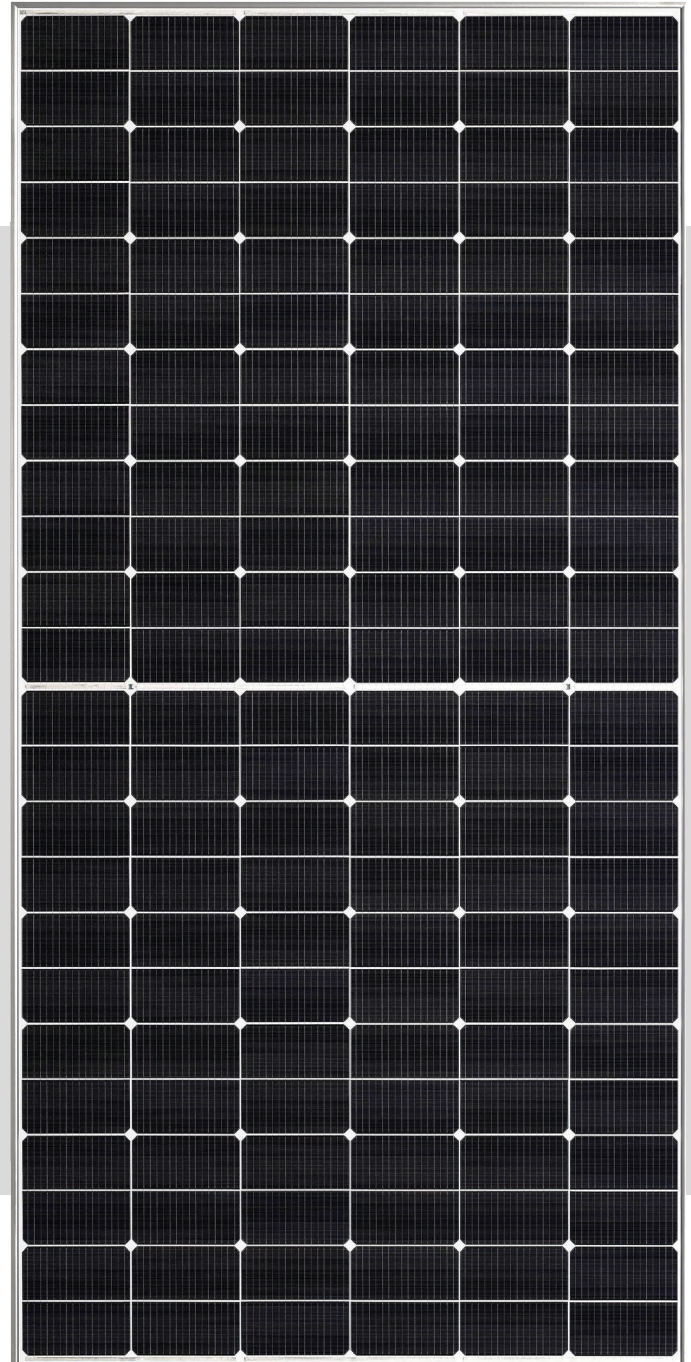
Highly profitable
More energy yield over the same area even on cloudy or hot days.
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Extremely durable
Outstanding cell stability and high breakage resistance thanks to patented SmartWire Connection Technology.
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Consistently sustainable
Regional value creation, made without lead and produced using 100% renewable energy.
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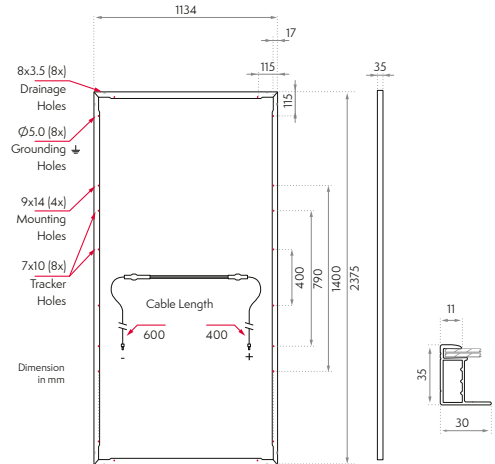
Guaranteed reliability
Industry-leading 30-year product and performance warranty.
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Really fair
Free from forced labor and produced to the highest quality and social standards.



Mechanical specification

Dimensions [mm]	2375 x 1134 x 35
Weight [kg]	34.4
Front cover	Tempered solar glass, 2.0 mm, with anti-reflective surface
Back cover	Solar glass, 2.0 mm
Frame	Silver anodized aluminum
Solar cell type	144 half-cells, mono n-Si, HJT with SWCT ¹ bifacial cell technology
Junction boxes	3 diodes, IP68 rated in accordance with IEC 62790
PV Cable	4 mm ² , (-) 600 mm, (+) 400 mm length in accordance with EN 50618
Connectors	1: n.a.; 2: MC4-Evo2A; 3: UKT Energy PV-CO02; 4: TE Connectivity PV4-S1; 5: n.a.; 6: Amphenol - PV H4 Plus, in accordance with IEC 62852, IP68 rated only when connected



Electrical specification¹

Product type: MB_WG144Cyz_XXX*

Power class	Efficiency		Power**			Short circuit current			Open circuit Voltage			Current at MPP		Voltage at MPP			
	η [%]		P_{max} [W]			I_{sc} [A]			V_{oc} [V]			I_{mpp} [A]		V_{mpp} [V]			
	STC ²	NMOT ³	STC	BiFi135 (BNPI) ⁴	BiFi300 (BSI) ⁵	NMOT	STC	BiFi135 (BNPI)	BiFi300 (BSI)	NMOT	STC	BiFi135 (BNPI)	BiFi300 (BSI)	NMOT	STC	NMOT	STC
540	20.1	409	540	606	686	10.2	12.7	14.2	16.1	50.8	53.4	53.5	53.8	9.5	11.9	42.9	45.3
545	20.2	412	545	611	692	10.3	12.8	14.3	16.2	50.8	53.4	53.6	53.8	9.6	12.0	43.0	45.4
550	20.4	416	550	617	699	10.3	12.9	14.4	16.3	50.8	53.4	53.6	53.8	9.7	12.1	43.1	45.5
555	20.6	420	555	623	705	10.4	13.0	14.5	16.5	50.9	53.5	53.6	53.9	9.7	12.2	43.2	45.6
560	20.8	424	560	628	711	10.5	13.1	14.6	16.6	50.9	53.5	53.7	53.9	9.8	12.3	43.2	45.7
Bifaciality factor [%]			$\varphi_{P_{max}} 90 \pm 5$			$\varphi_{I_{sc}} 90.7 \pm 5$			$\varphi_{V_{oc}} 99.7 \pm 5$								

* XXX = power class, y = connector type ** Power tolerance -0 W / +5 W for STC

Temperature coefficients

Temperature coefficient of I_{sc}	α	[%/K]	+0.033
Temperature coefficient of V_{oc}	β	[%/K]	-0.234
Temperature coefficient of P_{MPP}	γ	[%/K]	-0.259
Nominal Module Operating Temperature	NMOT ³	[°C]	43±2

The temperature coefficients stated are linear values.

Properties for system design

Max. system voltage	[V]	1500
Overcurrent protection rating	[A]	30
Max. test load +/- (downforce / uplift) ⁶	[Pa]	5400/3600
Max. design load +/- (downforce / uplift)	[Pa]	3600/2400
Safety class		II
Fire class [EN 13501-1 / EN 13501-5]		B/B _{roof} (t1)
Operation temperature	[°C]	-40 to +85
Module temperature rating [T_{pg}] max	[°C]	70

Certificates

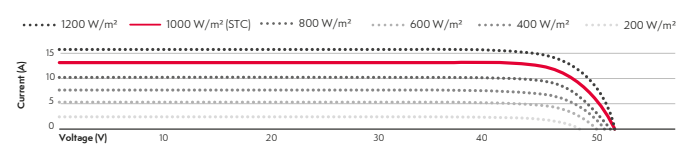
IEC 61215-1:2022, IEC 61730-1:2018, PID (IEC 62804), Ammonia corrosion resistance (IEC 62716), Blowing sand resistance (IEC 60068-2-68)



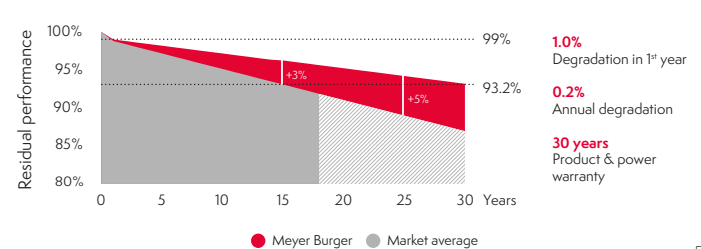
Notice: All data and specifications are preliminary and subject to change without notice.

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I-V curves at different irradiances



Meyer Burger warranty



Market standard **1x IEC**

Meyer Burger materials testing **3x IEC**

¹Measurement according to IEC 60904-3, measurement tolerance: ±3%, monofacial measurement with rear side covered
²STC: Irradiance 1000 W/m², module temperature 25°C, AM1.5G spectrum
³NMOT: Nominal Module Operating Temperature, with irradiance 800 W/m², AM1.5G spectrum, ambient temperature 20°C
⁴According to TUV 2 PIG 2845/1117, with a rear irradiance of 135 W/m²
⁵Calculated according to IEC 61215:2021
⁶Safety factor for test load = 1.5