PREXOS

SERIES 6

Monocrystalline Solar PV Modules, Bifacial, MBB, M6 Half-Cell, PREXOS VSMDHT.60.AAA.05

POWER OUTPUT WATT

340-375 | 20.22

MAXIMUM EFFICIENCY %

POSITIVE POWER TOLERANCE WP

 $0 \sim +4.99$

CELLS (HALF CUT)

M6 120



EFFECTIVE GAIN OF 1% OF CELL ACTIVE AREA by using cylindrical tabbing wire



Bypass diodes and innovative seriesparallel connections enable the module to perform better in PARTIAL SHADOW **CONDITIONS**



BETTER TOLERANCE TO MICRO CRACK

Higher number of busbar makes the PV modules less prone to loss in efficiency due to micro-cracks.



IMPROVED FIELD RELIABILITY due to multiple contact points on the cell.



SUPERIOR PRICE PERFORMANCE

half-cut improves the output of the module without adding much to cost



UP TO 15% POWER GAIN from ground facing side

INCREASED SHADE TOLERANCE



HALF-CELL MODULE Functions like two parallel modules, enabling the half-cell string to work in











partial shading

APPLICATIONS

- On-grid large scale utility systems
- On-grid rooftop industrial and commercial systems
- Rooftop residential systems







TECHNICAL DATA PREXOS SERIES 6 120CELLS - MBB

THIS DATASHEET IS APPLICABLE FOR: PREXOS VSMDHT.60.AAA.05 (AAA=340-375)

Electrical Data^{1,2} All data refers to STC (AM 1.5, 1000 W/m², 25°C)

Peak Power P _{max} (0 ~ +4.99Wp)	340	345	350	355	360	365	370	375
Maximum Voltage V _{mpp} (V)	34.5	34.6	34.6	34.7	34.7	34.8	34.9	34.9
Maximum Current I _{mpp} (A)	9.88	10.01	10.13	10.27	10.41	10.53	10.65	10.75
Open Circuit Voltage V _{oc} (V)	40.6	40.7	40.8	40.8	40.9	41	41.1	41.1
Short Circuit Current I _{sc} (A)	10.9	11.01	11.13	11.25	11.35	11.45	11.55	11.65
Module Efficiency η(%)	18.34	18.61	18.88	19.14	19.41	19.68	19.95	20.22

1] STC:1000 W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3. | 2] Power measurement uncertainty is within +/- 2%.

Electrical Parameters at NOCT³

Power (W)	251.6	255.3	259	262.7	266.4	270.1	273.8	277.5
V@P _{max} (V)	31.9	32	32	32.1	32.1	32.2	32.2	32.2
I@P _{max} (A)	7.9	8.01	8.1	8.22	8.33	8.42	8.52	8.6
V _{oc} (V)	37.9	38	38.1	38.1	38.2	38.3	38.4	38.4
I _{sc} (A)	9.93	10.03	10.14	10.25	10.34	10.43	10.52	10.61

Equivalent Bifacial Output

Bifacial Gain								
5%	357	362.25	367.5	372.75	378	383.25	388.5	393.75
10%	374	379.5	385	390.5	396	401.5	407	412.5
15%	391	396.75	402.5	408.25	414	419.75	425.5	431.25

Temperature Coefficients (Tc) permissible operating conditions

Tc of Open Circuit Voltage (β)	-0.27%/°C
Tc of Short Circuit Current (α)	0.050%/°C
Tc of Power (γ)	-0.35%/°C
Maximum System Voltage	1500V
NOCT	45°C ± 2°C
Temperature Range	-40°C to + 85°C

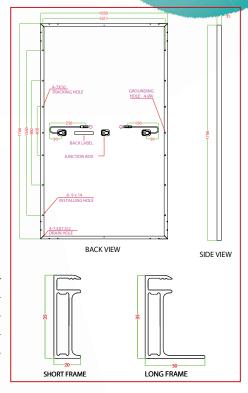
Mechanical Data

Length × Width × Height	<mark>1766 ×</mark> 1050 × 35mm (69.53 × 41.34 × 1.38 inches)			
Weight	20.3 Kg (44.75 lbs)			
Junction Box	IP68, Split Junction Box with individual bypass diodes			
Cable & Connectors#	200 mm (+ve terminal) and 300 mm(-ve terminal) length cables,MC4 Compatible/MC4 Connectors			
Application Class	Class A (Safety class II)			
Superstrate	3.2 mm [0.125 inches] high transmission low iron tempered glass, AR coated			
Cells	60 Mono-PERC (120 half-cells)			
Back Sheet	High Transmittance Composite film with Clear Tedlar® from Dupont®			
Frame	Anodized aluminium frame with twin wall profile			
Encapsulant	Polyolefin (POE)			
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)			
Maximum Series Fuse Rating	20 A			

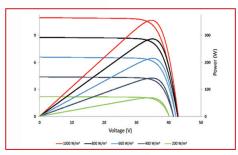
Warranty and Certifications

Product Warranty**	12 years
	Linear Power Warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27
	IEC 61215 : 2016, IEC 61730 : 2016, IEC 61701, IEC 62716, IEC 60068-2-68^, IEC 62804, CEC (California), UL 61215, UL61730, CAN-CSA, CE

Dimensions in mm

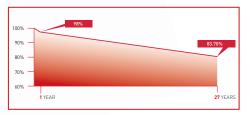


Typical I-V Curves4



4) Average relative efficiency reduction of 5% at 200 W/m² according to EN 60904-1.

Performance Warranty



Packaging Information

Quantity /Pallet	31
Pallets/Container (40'HC)	26
Quantity/Container (40'HC)	806

CAUTION: READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.

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[^] All [^] certifications under progress.

** Refer to Vikram Solar's warranty document for terms and conditions.

*400mm | [5.75 inches], 1000mm | (9.75 inches), 1200mm | (47.24 inches) cable lengths are also available.