PREXOS SERIES 6

Monocrystalline Solar PV Modules, Bifacial, MBB, M6 Half-Cell, PREXOS VSMDHT.78.AAA.05

POWER OUTPUT WATT

MAXIMUM EFFICIENCY %

POSITIVE POWER TOLERANCE WP

0~+4.99

CELLS (HALF CUT)

M6 156

475-505 21.02



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

CE 🧟

commercial systems

INCREASED SHADE TOLERANCE



HALF-CELL MODULE

Functions like two parallel modules, enabling the half-cell string to work in partial shading



 On-grid large scale On-grid rooftop utility systems industrial and

 Rooftop residential systems





TRANS-

WHITE BLACK PARENT



TECHNICAL DATA PREXOS SERIES 6 156CELLS - MBB

THIS DATASHEET IS APPLICABLE FOR: PREXOS VSMDHT.78.AAA.05 (AAA=475-505)

Electrical Data ^{1,2} All data refers to STC (AM 1.5, 1000 W/m ² , 25°C)							
Peak Power P _{max} (Wp)	475	480	485	490	495	500	505
Maximum Voltage V _{mpp} (V)	44.9	45.0	45.0	45.1	45.1	45.2	45.3
Maximum Current I _{mpp} (A)	10.61	10.69	10.79	10.88	10.99	11.07	11.16
Open Circuit Voltage V _{oc} (V)	52.8	52.9	53.0	53.1	53.2	53.3	53.4
Short Circuit Current I_{sc} (A)	11.45	11.56	11.67	11.77	11.88	11.99	12.09
Module Efficiency ŋ(%)	19.77	19.98	20.19	20.40	20.60	20.81	21.02

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

Electrical Parameters at NOCT³

Power (W)	351.5	355.2	358.9	362.6	366.3	370.0	373.7
V@P _{max} (V)	41.3	41.4	41.4	41.5	41.5	41.6	41.7
I@P _{max} (A)	8.51	8.58	8.66	8.73	8.82	8.88	8.95
V _{oc} (V)	48.5	48.6	48.7	48.8	48.9	49.0	49.1
I _{sc} (A)	9.16	9.25	9.34	9.42	9.51	9.60	9.68

Equivalent Bifacial Output

Bifacial Gain							
5%	499	504	509	515	520	525	530
10%	523	528	534	539	545	550	556
15%	546	552	558	564	569	575	581

Temperature Coefficients (Tc) permissible operating conditions

Tc of Open Circuit Voltage (β)	-0.27%/°C
Tc of Short Circuit Current (α)	0.065%/°C
Tc of Power (γ)	-0.35%/°C
Maximum System Voltage	1500V
NOCT	45°C ± 2°C
Temperature Range	-40°C to + 85°C

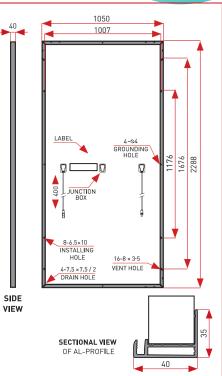
Mechanical Data

Length × Width × Height	2288 × 1050 × 40mm (90.07 × 41.33 × 1.57 inches)
Weight	26.9 Kg (59.3 lbs)
Junction Box	IP68/IP67, Split Junction Box with individual bypass diodes
Cable & Connectors#	400 mm 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	78 Mono PERC (156 half-cells)
Back Sheet	Composite film
Frame	Anodized aluminium frame with twin wall profile
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)
Maximum Series Fuse Rating	20 A

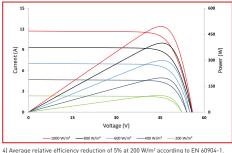
Warranty and Certifications

Product Warranty**	10 years
	Linear Power Warranty for 27 years with 3% for 1st year degradation and 0.67% from year 2 to year 27
	IEC 61215 : 2016, IEC 61730 : 2016, IEC 61701, IEC 62716, IEC 60068-2-68, IEC 62804, CE, CEC (California), UL 1703

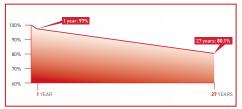
Dimensions in mm



Typical I-V Curves⁴



Performance Warranty



Packaging Information

Quantity /Pallet	27
Pallets/Container (40'HC)	20
Quantity/Container (40'HC)	540

All (^) certifications under progress.
Refer to Vikram Solar's warranty document for terms and conditions
1200mm (47.24 inches) cable length is also available

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

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3) NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec