PREXOS SERIES 10

Monocrystalline Solar PV Modules, Bifacial, MBB, M10 Half-Cell, PREXOS VSMDH.72.AAA.05

POWER OUTPUT WATT

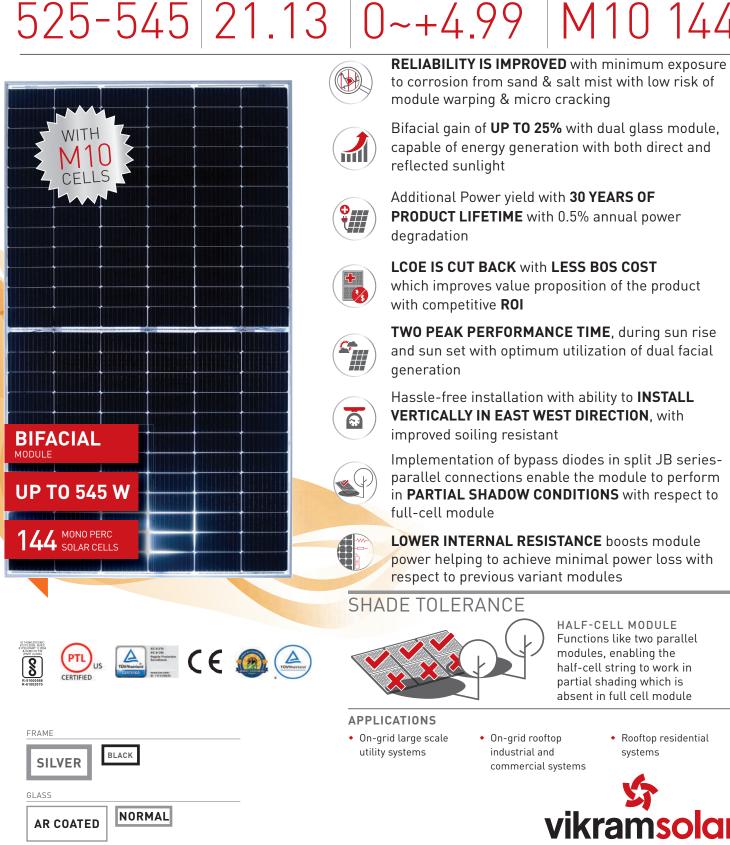
MAXIMUM EFFICIENCY %

POSITIVE POWER TOLERANCE WP

CELLS (HALF CUT)

systems

144





TECHNICAL DATA PREXOS SERIES 10 144CELLS - MBB

THIS DATASHEET IS APPLICABLE FOR: PREXOS VSMDH.72.AAA.05 (AAA=525-545)

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

Peak Power P _{max} (Wp)	525	530	535	540	545
Maximum Voltage V _{mpp} (V)	41.4	41.5	41.6	41.7	41.8
Maximum Current I _{mpp} (A)	12.69	12.78	12.87	12.95	13.04
Open Circuit Voltage V _{oc} (V)	49.2	49.3	49.4	49.5	49.6
Short Circuit Current I _{sc} (A)	13.4	13.48	13.56	13.64	13.73
Module Efficiency n(%)	20.36	20.55	20.75	20.94	21.13

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

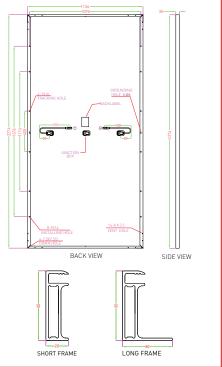
Power (W)	387	393	397	399	402
V@P _{max} (V)	38.2	38.3	38.4	38.5	38.6
I@P _{max} (A)	10.14	10.29	10.34	10.37	10.43
V _{oc} (V)	45.7	45.9	46	46.1	46.2
I _{sc} (A)	10.83	10.89	10.96	11.03	11.09

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

Equivalent Bifacial Output

Bifacial Gain	Overall Power output (W)				
5%	551	557	562	567	572
10%	578	583	589	594	600
15%	604	610	615	621	627
20%	630	636	642	648	654
25%	656	663	669	675	681

Dimensions in mm



Temperature Coefficients (Tc) permissible operating conditions

-0.27%/°C
0.050%/°C
-0.35%/°C
1500V
45°C ± 2°C
-40°C to + 85°C

Mechanical Data

2274 × 1134 × 35mm (89.53 × 44.65 × 1.38 inches)
33.4 Kg (73.63 lbs)
IP68, Split Junction Box with individual bypass diodes
200 mm (+ve terminal) and 300 mm (-ve terminal) length cables,MC4
Compatible/MC4 Connectors
Class A (Safety class II)
2.0 mm (0.098 inches) high transmission low iron content, tempered glass, AR coated
72 Mono PERC (144 half-cells) P-Type Bifacial solar cells
2.0 mm (0.098 inches) high transmission low iron content, heat strengthened glass
Anodized aluminium frame with twin wall profile
5400 Pa (Snow load), 2400 Pa (Wind load)
Polyolefin (POE)
g 25 A

Warranty and Certifications

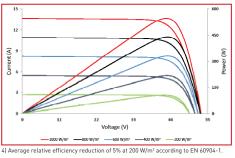
Product Warranty**	12 years
Performance	Linear Power Warranty for 30 years with 2% for 1st year degradation and 0.5% from year 2 to year 30
Approvals and Certificates [^]	IEC 61215 : 2016, IEC 61730 : 2016, IEC 61701, IEC 62716, IEC 60068-2-68, IEC 61730:2016, IS/IEC 61730, IS 14286, IEC 62804, CE, CE (California), UL 61215, UL 61730, CAN-CSA

CAUTION: READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT. Specifications included in this datasheet are subject to change without notice. Electrical data without guarantee. Please confirm your exact requirement with the company representative while placing your order. Looop Solar | www.loopsolar.com

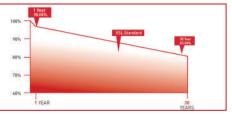


VSL/ENG/SC/220-R04

Typical I-V Curves⁴



Performance Warranty



Packaging Information

Quantity /Pallet	31
Pallets/Container (40'HC)	20
Quantity/Container (40'HC)	620

ML (1) certifications under progress. | ** Refer to Vikram Solar's warranty document for ter and conditions. | * 400mm(15.75 inches), 1000mm(39.37 inches),1200mm (47.24 inches) cable lengths are also available