



540-565W

MODEL PARADEA VSMDH.72.AAA.05

SUBSTRATE **GLASS** MESH GLASS •

FRAME TYPE **ALUMINIUM** • FRAME VARIANT SILVER •

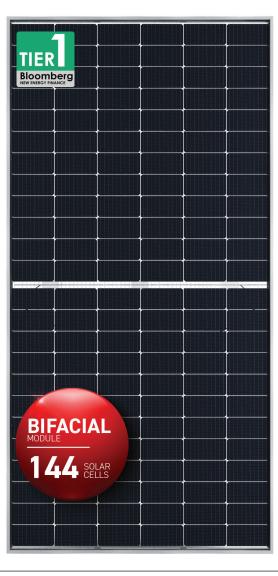
STEEL •

BLACK

21.87

PRODUCT WARRANTY

PERFORMANCE WARRANTY





PVEL TOP PERFORMER MODEL

· Benchmarked for highest standards of long-term module reliability and performance



RELIABILITY IS IMPROVED

- · Higher corrosion resistance to severe conditions of sand dust, concentrated ammonia and salt mist
- · Low risk of module warping & micro cracking



SUPERIOR HAIL TEST PERFORMANCE

 Ø 45mm hail test passed from third party laboratory with impact velocity up to 27m/s



ENHANCED RELIABILITY WITH INTEGRATED **BLOCKING DIODE**

- · Protects the solar module from reverse current, ensuring uninterrupted and safe operation
- · Shields the system from electrical surges, reducing the risk of damage to components



OPTIMIZED PERFORMANCE

- · Reduces the occurrence of local overheating and hotspots for consistent energy output
- · Lowers maintenance requirements, extending the module's operational life

PRODUCT CERTIFICATES











SYSTEM CERTIFICATES

IEC 61701, IEC 62716, IEC 60068-2-68, IS/IEC 61730, CAN-CSA INTERNATIONAL ORGANIZATION FOR STANDARDIZATION:

- ISO 9001:2015/ Quality Management System
- ISO 14001:2015/ Environmental Management System
- ISO 45001:2018/ Occupational Health and Safety Management System
- · SA 8000:2014/ Social Accountability International











TECHNICAL DATA

THIS DATASHEET IS APPLICABLE FOR: PARADEA VSMDH.72.AAA.05 (AAA=540-565)

ELECTRICAL PARAMETERS | STC1,2

Peak Power P _{max} (Wp)	540	545	550	555	560	565
Maximum Voltage V _{mpp} (V)	41.7	41.8	41.9	42	42.1	42.2
Maximum Current I _{mpp} (A)	12.96	13.05	13.14	13.23	13.32	13.41
Open Circuit Voltage V _{oc} (V)	49.5	49.6	49.7	49.8	49.9	50
Short Circuit Current I _{sc} (A)	13.64	13.73	13.82	13.91	14.0	14.08
Module Efficiency (%)	20.90	21.10	21.29	21.48	21.68	21.87

ELECTRICAL PARAMETERS | NOCT³

Peak Power P _{max} (Wp)	403	407	410	414	417	420
Maximum Voltage V _{mpp} (V)	38.60	38.70	38.80	38.90	39.00	39.1
Maximum Current I _{mpp} (A)	10.44	10.50	10.56	10.62	10.68	10.74
Open Circuit Voltage V _{oc} (V)	46.10	46.20	46.30	46.40	46.50	46.6
Short Circuit Current I _{sc} (A)	11.02	11.08	11.14	11.20	11.26	11.32

ELECTRICAL PARAMETERS | BNPI^{4,5}

Peak Power P _{max} (Wp)	591	597	602	607	613	618
Maximum Voltage V _{mpp} (V)	41.7	41.8	41.9	42.0	42.1	42.2
Maximum Current I _{mpp} (A)	14.18	14.28	14.38	14.48	14.58	14.68
Open Circuit Voltage V _{oc} (V)	49.5	49.6	49.7	49.8	49.9	50.0
Short Circuit Current I _{sc} (A)	14.93	15.03	15.13	15.22	15.31	15.41

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

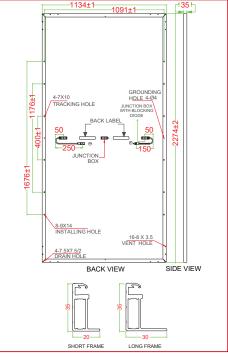
MECHANICAL DATA

Length × Width × Height	2274 × 1134 × 35mm (89.53 × 44.65 × 1.38 inches)
Weight	33.4Kg (73.63 lbs)
Junction Box	IP68, Split Junction Box with three bypass diodes and one blocking diode1*
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##	2.0 mm (0.098 inches) High transmission ARC Semi-tempered glass (low iron content)
Cells	72 Mono PERC (144 half-cells) P-Type Bifacial solar cells
Substrate	2.0 mm (0.098 inches) High transmission Heat strengthened glass/ mesh glass** (low iron content)
Frame	Anodized aluminium/ Alloy steel frame#*
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)
Cell Encapsulant	EVA/ EPE
Maximum Series Fuse Rating	25 A

WARRANTY

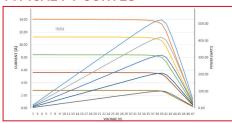
Product Warranty**	12 years	
i ci ioi ilianee irai i anty	Linear Power Warranty for 30 years with 2% for 1st year degradation and 0.5% from year 2 to year 30	

DIMENSIONS IN MM FIG.1



TYPICAL I-V CURVES7

FIG. 2

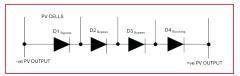


PERFORMANCE WARRANTY FIG. 3



DIODE CIRCUIT DIAGRAM

FIG. 4



PACKAGING INFORMATION

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

"All (*) certifications under progress. | **Refer to Vikram Solar's warranty document for terms and conditions. | *400mml (15.75 inches), 1000mml (37.24 inches), 1200mm (47.24 inches), cable lengths also available | **Anti-qlare Glass is also available | **Ser applicable product | **With additional Cc

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.

Vikram Solar and all its accompanying logos are trademarks of Vikram Solar Limited registered in India.





VSL/ENG/SC/331-V00/STD Paradea-1/4-GG-2025-V00