





545-570W

MODEL PARADEA VSMDH.72.AAA.05

SUBSTRATE **GLASS** MESH GLASS •

FRAME TYPE **ALUMINIUM** STEEL • FRAME VARIANT **SILVER** BLACK •

22.10

PRODUCT WARRANTY

PERFORMANCE WARRANTY





PVEL TOP PERFORMER MODEL

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



OPTIMIZED FRAME DESIGN

- · Anodized aluminium frame with twin wall structure for higher strength
- · Packaging capacity improved with more modules per container



RELIABILITY IS IMPROVED

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



LOWER LCOE

- Lower balance of systems cost
- Improves value proposition of the product with competitive



SUPERIOR HAIL TEST PERFORMANCE

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

PRODUCT 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







DADADEA 5/5-570W

THIS DATASHEET IS APPLICABLE FOR: PARADEA VSMDH.72.AAA.05 (AAA=545-570)

ELECTRICAL PARAMETERS | STC1,2

Peak Power P _{max} (Wp)	545	550	555	560	565	570
Maximum Voltage V_{mpp} (V)	41.8	41.9	42	42.1	42.2	42.3
Maximum Current I _{mpp} (A)	13.05	13.14	13.23	13.32	13.41	13.5
Open Circuit Voltage V _{oc} (V)	49.6	49.7	49.8	49.9	50	50.1
Short Circuit Current I _{sc} (A)	13.73	13.82	13.91	14	14.08	14.17
Module Efficiency (%)	21.13	21.33	21.52	21.72	21.91	22.10

1)STC-1000 W/M2 IRRADIANCE 25°C CELL TEMPERATURE AM1.5G SPECTRUM ACCORDING TO EN (1994-3 L2) TOLERANCE OF RATING AT STC (Page / In. / V.-) [96] -0-3/±10/±

ELECTRICAL PARAMETERS | NOCT3

Peak Power P _{max} (Wp)	407	410	414	417	420	424
Maximum Voltage V _{mpp} (V)	38.7	38.8	38.9	39	39.1	39.2
Maximum Current I _{mpp} (A)	10.5	10.56	10.62	10.68	10.74	10.8
Open Circuit Voltage V _{oc} (V)	46.2	46.3	46.4	46.5	46.6	46.7
Short Circuit Current I _{sc} (A)	11.08	11.14	11.2	11.26	11.32	11.38

3)NOCT IRRADIANCE 800 W/M2, AMBIENT TEMPERATURE 20°C, WIND SPEED 1 M/SEC

ELECTRICAL PARAMETERS | BNPI^{4,5}

Peak Power P _{max} (Wp)	597	602	607	613	618	624
Maximum Voltage V _{mpp} (V)	41.8	41.9	42	42.1	42.2	42.3
Maximum Current I _{mpp} (A)	14.28	14.38	14.48	14.58	14.68	14.78
Open Circuit Voltage V _{oc} (V)	49.6	49.7	49.8	49.9	50	50.1
Short Circuit Current I _{sc} (A)	15.03	15.13	15.22	15.31	15.41	15.5

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

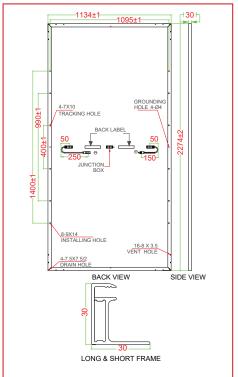
MECHANICAL DATA

Length × Width × Height	2274 × 1134 × 30mm (89.52 × 44.65 × 1.18 inches)
Weight	33 Kg (72.75 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##	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

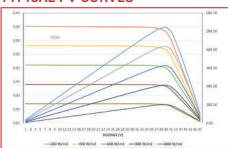
WARRANTY

Product Warranty**	12 years
Performance Warranty**	Linear Power Warranty for 30 years with 2% for 1st year degradation and 0.5% from year 2 to year 30

DIMENSIONS IN MM



TYPICAL I-V CURVES7



P) AVERAGE RELATIVE EFFICIENCY REDUCTION OF 5% AT 200 W/M² ACCORDING TO EN 60904-

PERFORMANCE WARRANTY



PACKAGING INFORMATION

Quantity /Pallet	36
Pallets/Container (40'HC)	20
Quantity/Container (40'HC)	720

"All (*) ertifications under progress. | "Refer to Vikram Solar's warranty document for terms and conditions." ["400mm (1.75 inches), 1000mm (373 inches), 1200mm (4.724 inches) cable lengths are also available | "Anti-glare Glass is also available | "As per applicable product | "With additional Cost & Lead Time subject to availability

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.

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