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EnergyPal

Solar Panel Guide Specification Data Sheet

Venergy Solar Industry Company Limited

VES-6MA-HV 365-375W

VES-370-6MA-HV

Also available on the web at
EnergyPal.com/venergy-solar-industry-company-limited-solar-panels/ves-370-6ma-hv



365-375W



MANAGEMENT SYSTEM

- ISO 9001: Quality management system
- ISO 14001: Standard for environmental management system
- OHSAS 18001: International standard for occupational health and safety assessment system

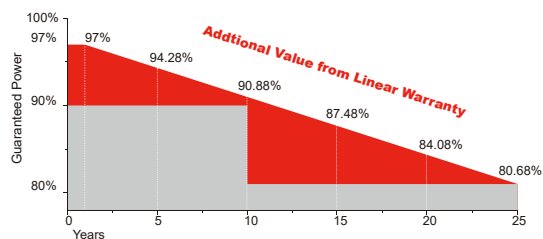
PRODUCT CERTIFICATES



INSURANCE



WARRANTY



10 YEARS Guarantee on product material and workmanship | **25 YEARS** linear power output warranty

Safety

- 1500V** Withstand and applicable up to 1500V high system voltage
- NEW -IEC-** Tested and certified according to newest IEC standard IEC61730-1:2016 IEC61730-2:2016
- G** Class C fire safety class

Reliability

- NEW -IEC-** Tested and certified according to newest IEC standard IEC61215:2016
- 1st** World 1st company to pass "Thresher Test" and "On-site Power Measurement Validation" certificate
- \$/€/£ BANKABLE** Bankable products

Performance

- Advanced** Outstanding power output capability at low irradiance
- Triple 100%** Triple 100% Electroluminescence (EL) tests minimize breakage rate
- Photon TOP** Top rank in Photon yield measurement

VES-6MA-HV SERIES 6 INCH 72 CELLS



*BLACK FRAME / BLACK BACK-SHEET PRODUCTS ARE AVAILABLE UPON REQUEST.

Electrical Characteristics(STC)

Module Type	VES-365-6MA-HV	VES-370-6MA-HV	VES-375-6MA-HV
Maximum Power at STC - P_{mp} (W)	365	370	375
Open Circuit Voltage - V_{oc} (V)	47.6	47.8	48.2
Short Circuit Current - I_{sc} (A)	9.76	9.82	9.88
Maximum Power Voltage - V_{mp} (V)	38.6	38.9	39.1
Maximum Power Current - I_{mp} (A)	9.45	9.52	9.59
Module Efficiency STC- η_m (%)	18.81	19.07	19.33

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5;
Power measurement tolerance: +/-3%

Electrical Characteristics(NOCT)

Module Type	VES-365-6MA-HV	VES-370-6MA-HV	VES-375-6MA-HV
Maximum Power at NOCT - P_{mp} (W)	273	277	281
Open Circuit Voltage - V_{oc} (V)	43.9	44.3	44.7
Short Circuit Current - I_{sc} (A)	8.08	8.12	8.16
Maximum Power Voltage - V_{mp} (V)	36.3	36.5	36.7
Maximum Power Current - I_{mp} (A)	7.52	7.59	7.66

NOCT: Irradiance 800 W/m² ambient temperature 20°C wind speed : 1m/s
Power measurement tolerance: +/-3%

Power Tolerance (W)	(0,+4.99)
Maximum System Voltage (V)	1500
Maximum Series Fuse Rating (A)	20

Temperature Characteristics

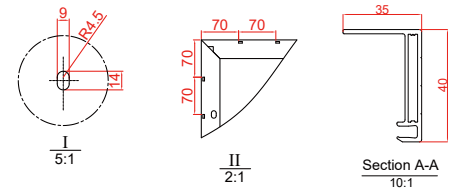
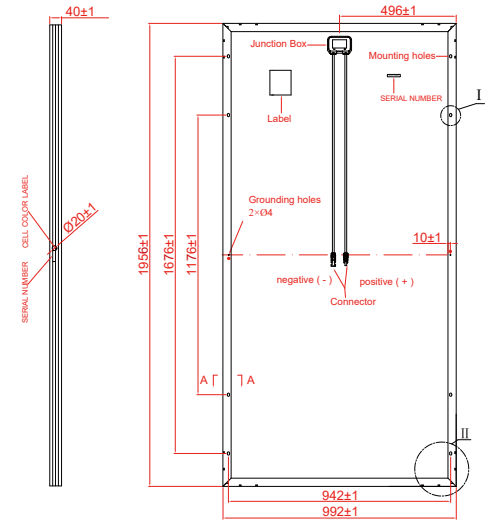
Pmax Temperature Coefficient	-0.40 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C

Packing Configuration

	1956 x 992 x 40mm	
Container	20'GP	40'GP
Pieces per Pallet	27	27
Pallets per Container	10	24
Pieces per Container	270	648

Mechanical Specifications

External Dimensions	1956 x 992 x 40 mm
Weight	23 kg
Solar Cells	Mono crystalline 156.75 x 156.75 mm (72pcs)
Front Glass	3.2 mm tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP67
Output Cables	4.0 mm ² , cable length: 1100 mm
Connector	MC4 Compatible
Mechanical Load	5400 Pa



* All Dimensions in mm

* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact VENERGY.

I-V Curve(VES-350-6MA-HV)

