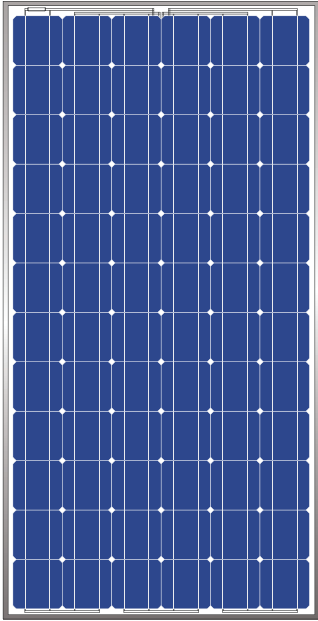


VJM5(L)

72/180-215 SOLAR PHOTOVOLTAIC MODULE

SONNEBLUM



PRODUCT OVERVIEW

- Vorks Energy's modules are optimally manufactured and adjusted to meet the needs of the current market; scientifically designed module dimension makes the installation simple and easy.
- Our continuous efforts in quality assurance system and certifications shows Vorks Energy's products demonstrate our commitment to product quality and customer requirements

MODULE CHARACTERISTICS

- High efficiency crystalline silicon solar cells
- High transmission low iron tempered glass, strong mechanical resistance
- Standard waterproof junction box, with bypass diode.
- High endurance to different atrocious weather.
- Custom designed modules according to clients's requirement.

MECHANICAL PARAMETERS

Cell(mm)	Mono 125×125 (L)
Weight(kg)	15.5
Dimensions(L×W×H)(mm)	1580×808×40
Cable Length(mm)	≥900
Cable cross section size(mm ²)	4
No. of cells and connections	72(12×6)
No. of diodes	3
Packing configuration	21/25 Pcs./Carton

WORKING CONDITIONS

Maximum System Voltage	DC 1000V(TÜV)
Operating Temp.	-40°C~+85°C
Maximum Series Fuse	10 A
Max. Wind Load / Max. Snow Load	2400Pa / 5400Pa
Grounding conductivity	<0.1Ω
NOCT	45±2%/°C
Application Class	Class A
Insulation Resistance	≥100MΩ

GUARANTEE

5-year limited product warranty

Limited performance warranty: 10 years at 90% of the minimal rated power output, 25 years at 80% of the minimal rated power output

Vorks Energy Private Limited

Add: The Concourse, A-2A, Sector - 63, Noida - 201301, Uttar Pradesh, India

Tel: +91-98100-40837 Email: solar@vorks.com

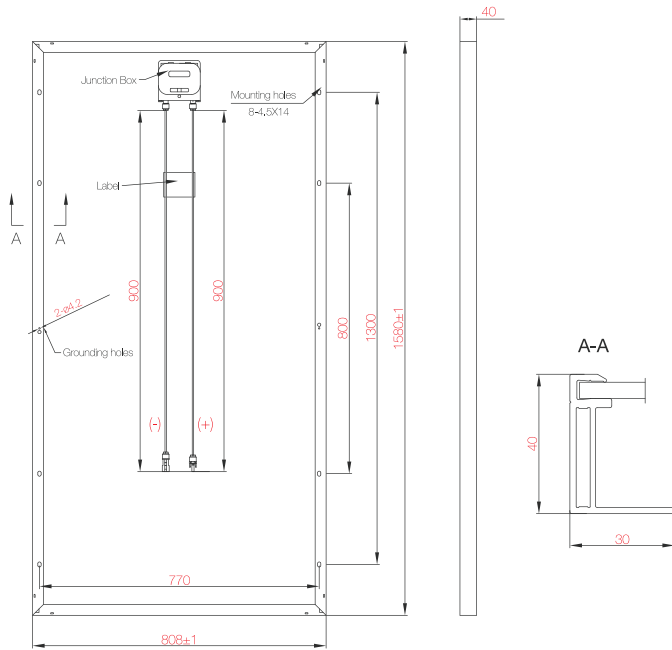
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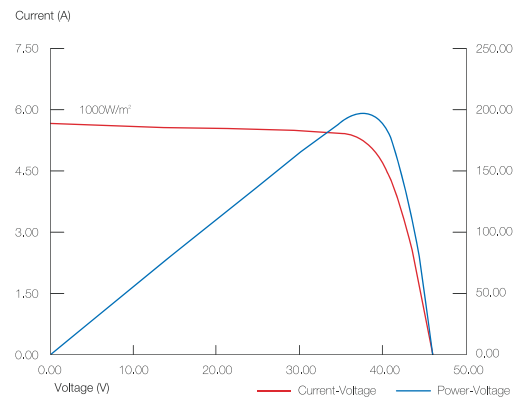
VJM5(L)

72/180-215 SOLAR PHOTOVOLTAIC MODULE

SONNEBLUM



I-V CURVE



ELECTRICAL PARAMETERS

TYPE	VJM5(L)- 72-180/SON	VJM5(L)- 72-185/SON	VJM5(L)- 72-190/SON	VJM5(L)- 72-195/SON	VJM5(L)- 72-200/SON	VJM5(L)- 72-205/SON	VJM5(L)- 72-210/SON	VJM5(L)- 72-215/SON
Rated Maximum Power at STC (W)	180	185	190	195	200	205	210	215
Open Circuit Voltage (Voc/V)	44.88	45.18	45.38	45.50	45.62	45.74	45.90	46.10
Maximum Power Voltage (Vmp/V)	36.42	36.54	36.66	36.96	37.26	37.56	37.86	38.16
Short Circuit Current (Isc/A)	5.44	5.52	5.58	5.63	5.66	5.69	5.73	5.79
Maximum Power Current (Imp/A)	4.94	5.06	5.18	5.28	5.37	5.46	5.55	5.63
Module Efficiency [%]	14.10	14.49	14.88	15.27	15.67	16.06	16.45	16.84
Power Tolerance	±3%							
α_{Isc}	+0.04%/°C							
β_{Voc}	-0.30%/°C							
γ_{Pmp}	-0.44%/°C							

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