

Solar PV Modules

Monocrystalline PERC Solar PV Modules
380-400W



Higher Efficiency



Easy Handling & Installation



Maximum System Voltage of 1500V DC



Higher Module Power Output



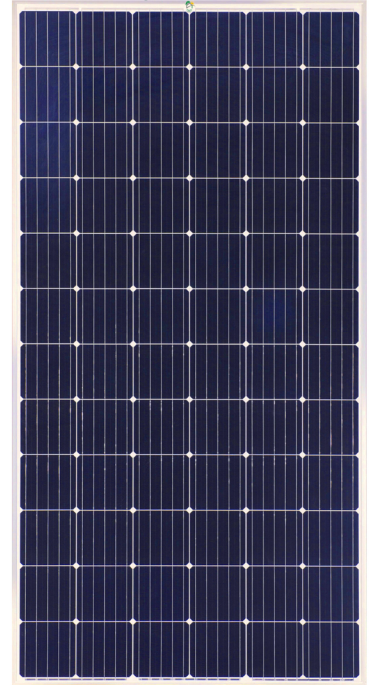
BOS Cost Reduced



15 Years Product Workmanship Warranty



27 Years Product Performance Warranty



Why HVR Solar ?

Stringent Quality Control

Intensive R&D

Highly Skilled Management

Tier-1 Raw Material Used

Highest Standards of Product

Door-to-Door Supply Chain & Logistic

Product Reliability Factor



Positive Power Tolerance



Withstand Harsh Environmental Conditions



100% EL Inspected-Micro Crack Free Module



High Low Light Performance



High Resistivity AR Coated Glass



PID Resistant 5/6 BB Cells & Encapsulants

Applications



On-Grid Rooftop Industrial & Commercial System



Off-Grid Rooftop System



Solar Water Pumping



Off-Grid System For Filling Stations



Electric Vehicles Charging Station



On-Grid Large Scale Utility Projects

TECHNICAL DATA

MODULE SERIES	HVRM072F24V380	HVRM072F24V385	HVRM072F24V390	HVRM072F24V395	HVRM072F24V400
Dimension L x W (mm)	1990 X 990	1990 X 990	1990 X 990	1990 X 990	1990 X 990
Cell Size (mm)	158.75 x 158.75	158.75 x 158.75	158.75 x 158.75	158.75 x 158.75	158.75 x 158.75
No of Cell	72	72	72	72	72
Max Series Fuse Rating (A)	30	30	30	30	30
Max System Voltage (V)	1500	1500	1500	1500	1500

Electrical Characteristics at STC

Max Power (Wp)	391.68	395.28	398.88	402.48	406.08
Max Voltage (V)	41.04	41.26	41.47	41.69	41.98
Max Current (A)	9.55	9.59	9.62	9.65	9.68
Open Circuit Voltage (V)	48.53	48.67	48.82	48.96	49.10
Short Circuit Current (A)	10.15	10.17	10.19	10.21	10.24
FF	79.55	79.88	80.21	80.47	80.79
Module Efficiency (%)	19.88	20.06	20.25	20.43	20.61

Electrical Characteristics at NOCT

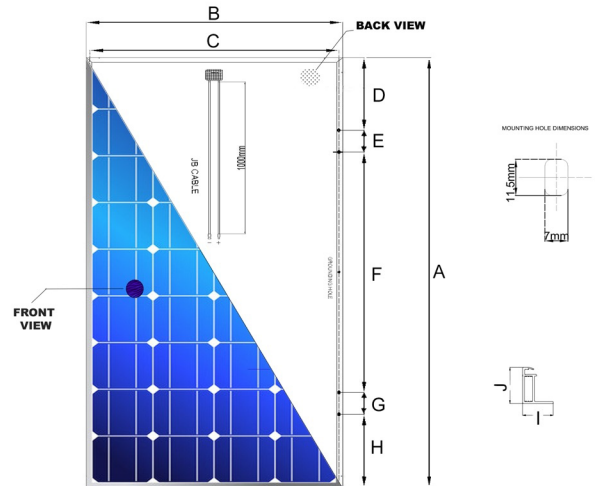
Max Power (Wp)	289.84	292.51	295.17	297.84	300.50
Max Voltage (V)	37.76	37.96	38.15	38.35	38.62
Max Current (A)	7.64	7.67	7.70	7.72	7.74
Open Circuit Voltage (V)	45.62	45.75	45.89	46.02	46.16
Short Circuit Current (A)	9.13	9.16	9.17	9.19	9.21

Temperature Coefficients (Tc) Permissible Operating Conditions

Tc OF OPEN CIRCUIT VOLTAGE (α)	-0.275%/K
Tc OF SHORT CIRCUIT CURRENT (β)	+0.030%/K
Tc OF POWER (γ)	-0.374%/K
Max System Voltage	1500V
NOCT	45°C to 2°C
TEMPERATURE RANGE	-40°C to 85°C

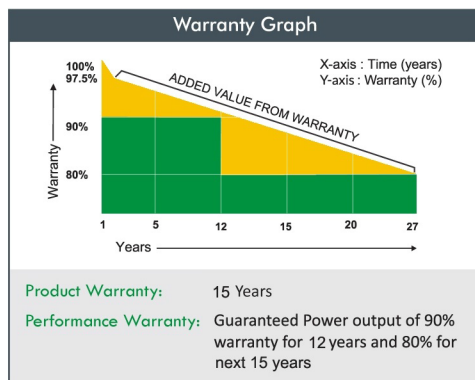
Mechanical Data

L X W X H	1990 X 990 X 40mm
WEIGHT	21.1 Kg
JUNCTION BOX	IP 67 / IP 68 4Rail 3 Diode Type JB
CABLE & CONNECTORS	Solar Cable 1000 mm x 2 Nos Black with MC4 Connectors
APPLICATION CLASS	Class A (Safety Class II)
SUBSTRATE (GLASS)	3.2mm High Transmission Low Iron Content
SOLAR CELLS & ORIENTATION	72 Cell Mono PERC
CELL ENCAPSULANT	EVA (Ethylene Vinyl Acetate)-FC/UFC
BACKSHEET	Composite Film - White
FRAME	Anodised Aluminium Frame with Twin wall Profile- Silver
MECHANICAL LOAD TEST	Sustain Heavy wind & snow loads (2400Pa & 5400 Pa or 550 kg/m ²). Maximum diameter of 24mm with hail impact of 83 Km/Hr.



Module & Hole Mounting Dimension

DIMENSION (mm)	
A	1990
B	990
C	955
D	345
E	100
F	1100
G	100
H	345
I	40
J	30



Approvals and Certification

Products:	IEC 61215 ,ROHS IEC 61730, IEC 61701, CE, UL 1703,
Manufacturing:	ISO 9001:2015, ISO 14001: 2015 ISO 45001:2018

