



Your new energy partner!

Solar PV Modules

Monocrystalline PERC Solar PV Modules 380-400W Twin Peak



Higher Efficiency



Easy Handling & Installation



Maximum System Voltage of 1500V DC



Higher Module Power Output



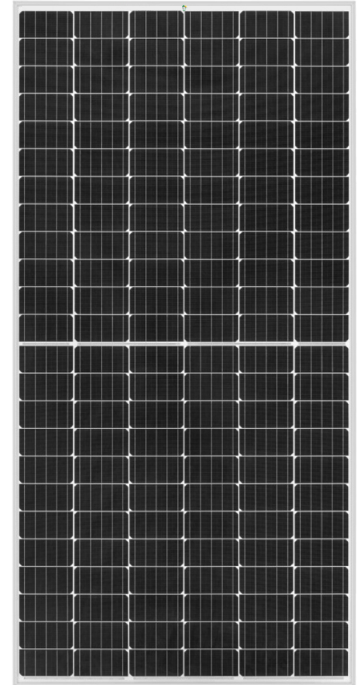
BOS Cost Reduced



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	HVRM144C24V380	HVRM144C24V385	HVRM144C24V390	HVRM144C24V395	HVRM144C24V400
Dimension L x W (mm)	1975 X 990	1975 X 990	1975 X 990	1975 X 990	1975 X 990
Cell Size (mm)	78.5 x 157	78.5 x 157	78.5 x 157	78.5 x 157	78.5 x 157
No of Cell	144	144	144	144	144
Max Series Fuse Rating (A)	20A	20A	20A	20A	20A
Max Ssystem Voltage (V)	1000/1500	1000/1500	1000/1500	1000/1500	1000/1500

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

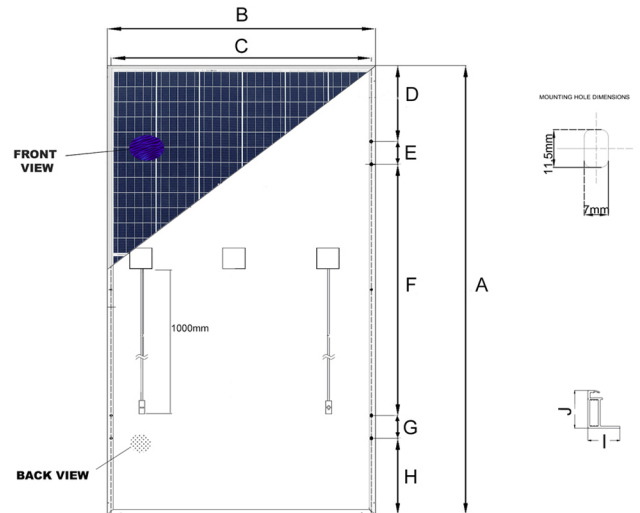
Max Power (Wp)	289.84	292.51	295.17	297.84	300.50
Max Voltage (V)	37.76	37.96	38.15	38.35	38.62
Max Current (A)	7.64	7.67	7.70	7.72	7.74
Open Circuit Voltage (V)	45.62	45.75	45.89	46.02	46.16
Short Circuit Current (A)	9.13	9.16	9.17	9.19	9.21

Temperature Coefficients (Tc) Permissible Operating Conditions

Tc OF OPEN CIRCUIT VOLTAGE (α)	-0.286%/K
Tc OF SHORT CIRCUIT CURRENT (β)	+0.040%/K
Tc OF POWER (γ)	-0.374%/K
Max System Voltage	1000/1500V
NOCT	46°C to 2°C
TEMPERATURE RANGE	-40°C to +85°C

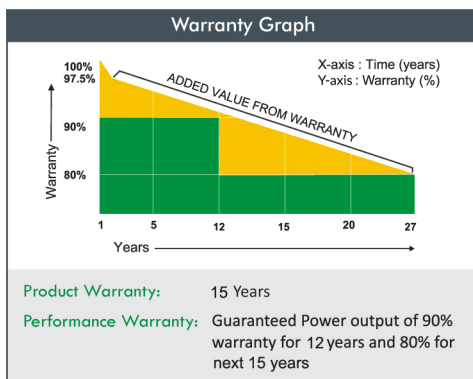
Mechanical Data

L X W X H	1975 X 990 X 30mm
WEIGHT	21.1 Kg
JUNCTION BOX	IP 67 / IP 68 rated with 3 bypass diodes
CABLE & CONNECTORS	Solar Cable 1000 mm x 2 Nos Black with MC4 Connectors
APPLICATION CLASS	Class A (Safety Class II)
SUBSTRATE (GLASS)	High transmission low Iron tempered glass
SOLAR CELLS & ORIENTATION	Mono PERC Solar Cells
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.

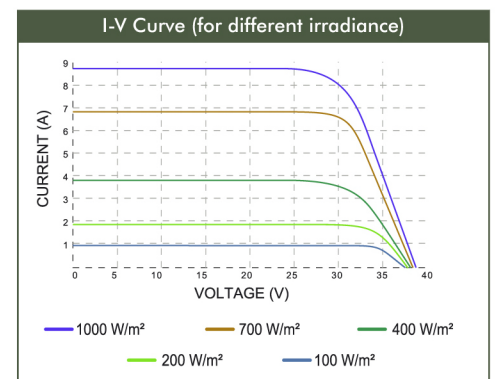


Module & Hole Mounting Dimension

DIMENSION (mm)	
A	1975
B	990
C	955
D	337.5
E	100
F	1100
G	100
H	337.5
I	30
J	40/35



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



Corporate Office

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Works

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