







Rhine Solar module production facility of 120MW are structured for "Quality Products". Our European engineering and manufacturing expertise and emphasis on utilizing the very latest technologies places us ahead of the competition and one of the best & most automatically advanced solar manufacturing facility in National Capital Region of Delhi with its corporate office in New Delhi founded in 2014 by MBA's & IIT (Roorkee Alumini). Rhine Solar Limited is a part of Group Companies which are successfully doing business for last 40 years into diversified business segments. Our manufacturing facilities in Sonipat Haryana use fully-automated equipment from MONDRAGON assembly (Europe), combined with meticulous quality control procedures to produce our premium photovoltaic modules.

Top quality "Made by Rhine Solar Ltd" - independently verified; The certificate "IEC Quality Tested" modules having high reliability, low degradation and optimized functional reliability. For our customers, this means even more security for their investment. Guaranteed quality. Tried & Tested.

All our modules undergo rigorous quality controls at every phase of production and must pass a wide range of specific tests in order to guarantee quality. We are regularly inspected by world-class auditors.

Our products must deliver what they promise - over their entire service life. Quality standards "Made by Rhine Solar" are based on the real conditions, our modules will be exposed to different climatic conditions. We are convinced: REAL VALUE lasts longer.













APPLICATIONS:







QUALITY AND SAFETY:

- 100% EL Tested to ensure micro crack free modules
- Rigorous Quality Control in order to meet the TUV Standards.
- 25 Years Linear Power Output Warranty
- Around 30 In House Tests.

- On-grid large scale utility systems
- On-grid roof top installation
- Off-grid residential Systems
- Solar Pumping Applications

KEY FEATURES



Excellent module efficiency of up to 20.0 %



Outstanding low irradiance performance of up to 96.0 %



IP67 junction box for long-term weather endurance

CERTIFICATIONS

IEC 61215, IEC 61730-1 & 2, IEC 62804, IEC 61701, Fire Rating, ISO 9001,14001,18001

RHINE SOLAR LIMITED

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MONOCRYSTALLINE MODULES

72 Cell Series

POWER RANGE

380-410 watts

MAXIMUM EFFICIENCY

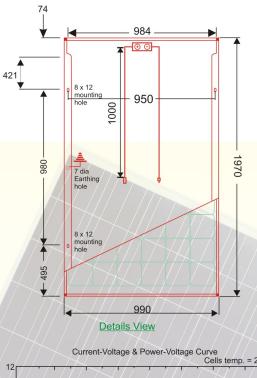
20.0%

TEMPERATURE RATINGS

Temperature Coefficient of Pmax -0.380%/°C
Temperature Coefficient of Voc -0.300%/°C
Temperature Coefficient of Isc +0.060%/°C

WARRANTY

10 Year Product Workmanship Warranty25 years Linear Power Warranty



Current-Voltage & Power-Voltage Curve Cells temp. =	25°C
12	7 7
4//////////////////////////////////////	450
10 Incident Irrad. = 1000 W/m²	400
	350
8 Incident Irrad. = 800 W/m²	300
6 Incident Irrad. = 600 W/m²	250 ≶
Incident Irrag = 400 W/m²	250 N in a 200 N in a
	150
2 Incident Irrad. = 200 W/m²	100
	50
0 10 20 30 40 50	

-	t STC)					
Model Type		380WP	390WP	400WP	410WP	
Nominal Maximum Pov	ver (Pmax)	380 W	390 W	400 W	410 W	
Short Circuit Current (Is	sc)	9.8 A	9.9 A	10.00 A	10.10 A	
Operating Voltage (Vm	p)	40.5 V	41.1 V	41.7 V	42.3 V	
Operating Current (Imp)	9.4 A	9.5 A	9.6 A	9.7 A	
Open Circuit Voltage (\	oc)	48.8 V	48.8 V	48.9 V	49.0 V	
Module Efficiency %		19.4%	19.6%	19.8%	20.0%	
Operating Temperature		-40°C to	80°C			
Maximum System Volta		1000 V				
Maximum Series Fuse	Rating		20 Amp			
Application Classification		Class A	١			
Power Tolerance			+- 3%			
Under Standard Test C	Condition (S	ΓC) of irradia	ince of 100	0 w/m ² , spe	ctrum AM	
	1.5 and cell	temperature	e of 25°C			
MECHANICAL DATA						
Solar Cells	Monocry	Monocrystalline 158.75 mm x 158.75 mm				
Cell Orientation	72 cells	72 cells (12 x 6)				
Module Orientation	1970 x 9	1970 x 990 x 40 mm ³				
Weight (Kgs)	21.80 Kg	21.80 Kg				
Front Glass	3.2mm to	3.2mm toughened textured glass				
Back sheet	White					
Frame	Anodize	Anodized Aluminum Alloy				
Junction Box	IP67, 3 [IP67, 3 Diode				
Cable & Connectors	4mm ² AV	4mm ² AWG 1000V MC4 connectors				

*Due to continuous product innovation and improvement the specifications in product data sheet are subject ot change without prior notice.

Module Pieces per Container 720 Pieces/Modules/Panels (40 HQ)

Dealer's Stamp		

30x1 Pieces, 650 kg Quantity & weight per palette

Website: www.rhinesolar.in

Standard Packing