

**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.



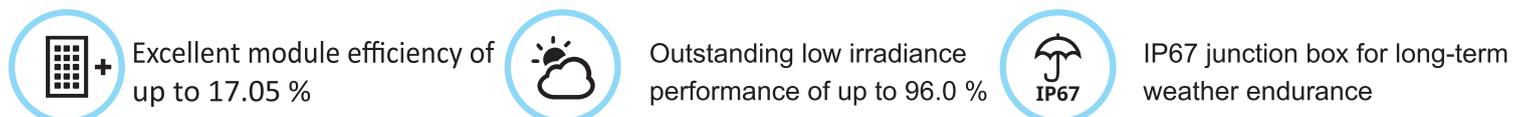
### QUALITY AND SAFETY:

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

### APPLICATIONS:

- Roof top installation
- Off-grid residential Systems
- Street Light Applications

### KEY FEATURES



### CERTIFICATIONS

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

## RHINE SOLAR LIMITED<sup>®</sup>

REGD. OFFICE : AD - 86 A, Shalimar Bagh, Delhi - 110088

FACTORY : Killa No. 80/6, Janti Kalan Road, Sersa, Kundli, Distt. Sonipat-131028, Haryana (INDIA)

Phone No. : +91 - 11 - 35622975

Email : sales@rhinesolar.in

**POLYCRYSTALLINE MODULES**

36 Cell Series

**POWER RANGE**

160-170 watts

**MAXIMUM EFFICIENCY**

**17.05%**

**TEMPERATURE RATINGS**

Temperature Coefficient (Pmax) (-) .43%  
 Temperature Coefficient (Voc) (-) .36%  
 Temperature Coefficient (Isc) (+) .06%

**WARRANTY**

5 Year Product Workmanship Warranty  
 10 years Linear Power Warranty

**ELECTRICAL DATA (at STC)**

Model Type	160WP	165WP	170WP
Nominal Maximum Power (Pmax)	160 W	165 W	170 W
Short Circuit Current (Isc)	8.87 A	8.96 A	9.09 A
Operating Voltage (Vmp)	18.90 V	19.47 V	19.81 V
Operating Current (Imp)	8.47 A	8.48 A	8.59 A
Open Circuit Voltage (Voc)	22.64 V	22.89 V	23.01 V
Module Efficiency %	16.80%	16.90%	17.05%
Operating Temperature	-40°C to 80°C		
Maximum System Voltage	600 V		
Maximum Series Fuse Rating	15 Amp		
Application Classification	Class A		
Power Tolerance	+- 3%		

Under Standard Test Condition (STC) of irradiance of 1000 w/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C

**MECHANICAL DATA**

Solar Cells	Polycrystalline 156.75 mm x 156.75 mm
Cell Orientation	36 cells (9 x 4)
Module Orientation	1495 x 670 x 35 mm <sup>3</sup>
Weight (Kgs)	11.30 Kg
Front Glass	3.2mm toughened textured glass
Back sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	Ip67, 2 Diode
Cable & Connectors	4mm <sup>2</sup> AWG 1000V MC4 connectors

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



Details View

Dealer's Stamp