



MAHATHI SOLAR

www.mahathisolar.com

60 Cells Polycrystalline High Performance PV Module

The Advantages:

12
Years

12 Years Manufacture's Warranty



PID Resistance & low light performance
High power density



Guaranteed positive power tolerance from
0-5 Wp by individual measurement



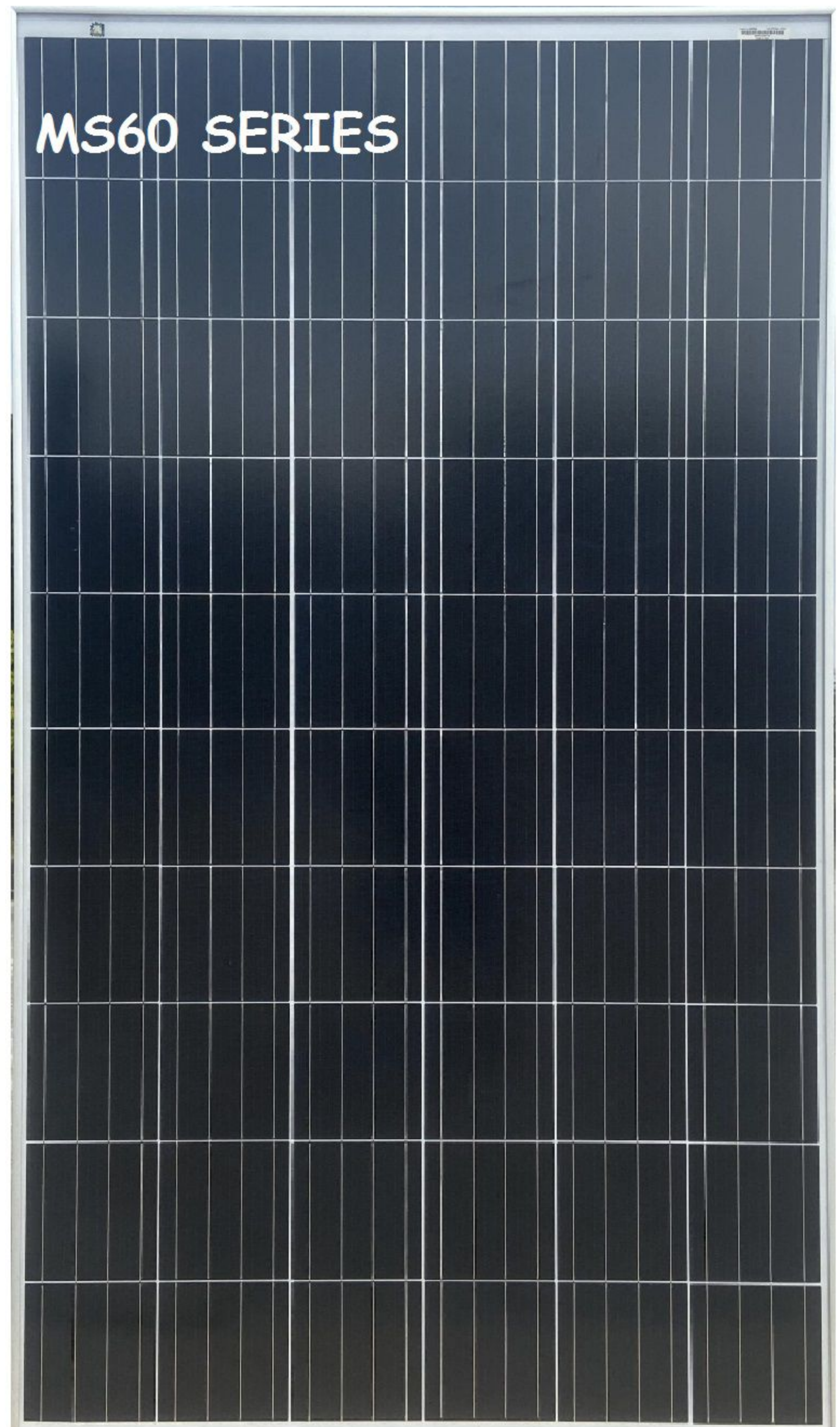
Extreme weather resilience
Max windspeed / snowload- 2400 Pa/5400 Pa



100% electroluminescence inspection
10 time passed with quality check



IP67 Rated high Quality Junction Boxes



Ideal for:



Residential



Commercial



Utility



Off-grid

Exclusive liner MAHATHI high performance guarantee

- 10 years manufacturer's guarantee on 90 % of the nominal performance
- 25 years manufacturer's guarantee on 80 % of the nominal performance





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Electrical data (at standard conditions (STC) irradiance 1000 watt/m², spectrum AM 1.5 at a cell temperature of 25°C)

Model Type	Nominal Output P _{mp}	Nominal voltage V _{mp}	Nominal current I _{mp}	Short circuit current I _{sc}	Open circuit voltage V _{oc}	Module conversion efficiency
MS-260P 60S	260 Wp	30.80 V	8.34 A	8.82 A	38.50 V	≥15.90 %
MS-270P 60S	270 Wp	30.95 V	8.74 A	9.13 A	38.70 V	≥16.20 %
MS-275P 60S	275 Wp	31.15 V	8.85 A	9.24 A	38.90 V	≥16.53 %
MS-280P 60S	280 Wp	31.37 V	8.95 A	9.30 A	39.13 V	≥16.75 %
MS-270P/CUT-72S	270 Wp	37.40 V	8.75A	9.10 A	45.40 V	≥16.20 %

Design

Front Glass	3.2 mm low iron tempered- low reflection white glass
Cells Orientation	10×6 polycrystalline / 156.75 mm x 156.75 mm/CUT
Backside	UV Protected Composite film (PET/PDVF)
Frame	35 mm Anodized Aluminum Alloy

Mechanical data

L x W x H	1641 x 992 x 35 mm
Weight	20 kg with frame

Power connection

Junction Box	IP67 (3 bypass diodes)
Cable & Connectors	4 Sq mm, 1000 mm length with MC4connectors
Plug-in system	Plug/socket IP67

Limit values

System voltage	1000 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Max. load-carrying capacity	2400 N/m ²
Reverse current feed IR	16.00 A

Permissible operating temperature -40°C to 85°C / -40F to 185F

(No external voltages greater than V_{oc} may be applied to the module)

* NOCT, irradiance 800 W/m²; AM 1.5; wind speed 1 m/s; Temperature 20°C

Temperature coefficients

Voltage V _{oc}	-0,30 %/K
Current I _{sc}	0,04 %/K
Output P _{mp}	-0,42 %/K

Low-light performance (Example for MS-260P/156-60S)

I-V characteristic curve	Current I _{pp}	Voltage V _{pp}
200 W/m ²	1.32 A	29.40 V
400 W/m ²	2.65 A	29.55 V
600 W/m ²	5.10 A	30.45 V
800 W/m ²	6.70 A	30.60 V
1000 W/m ²	8.34 A	30.80V

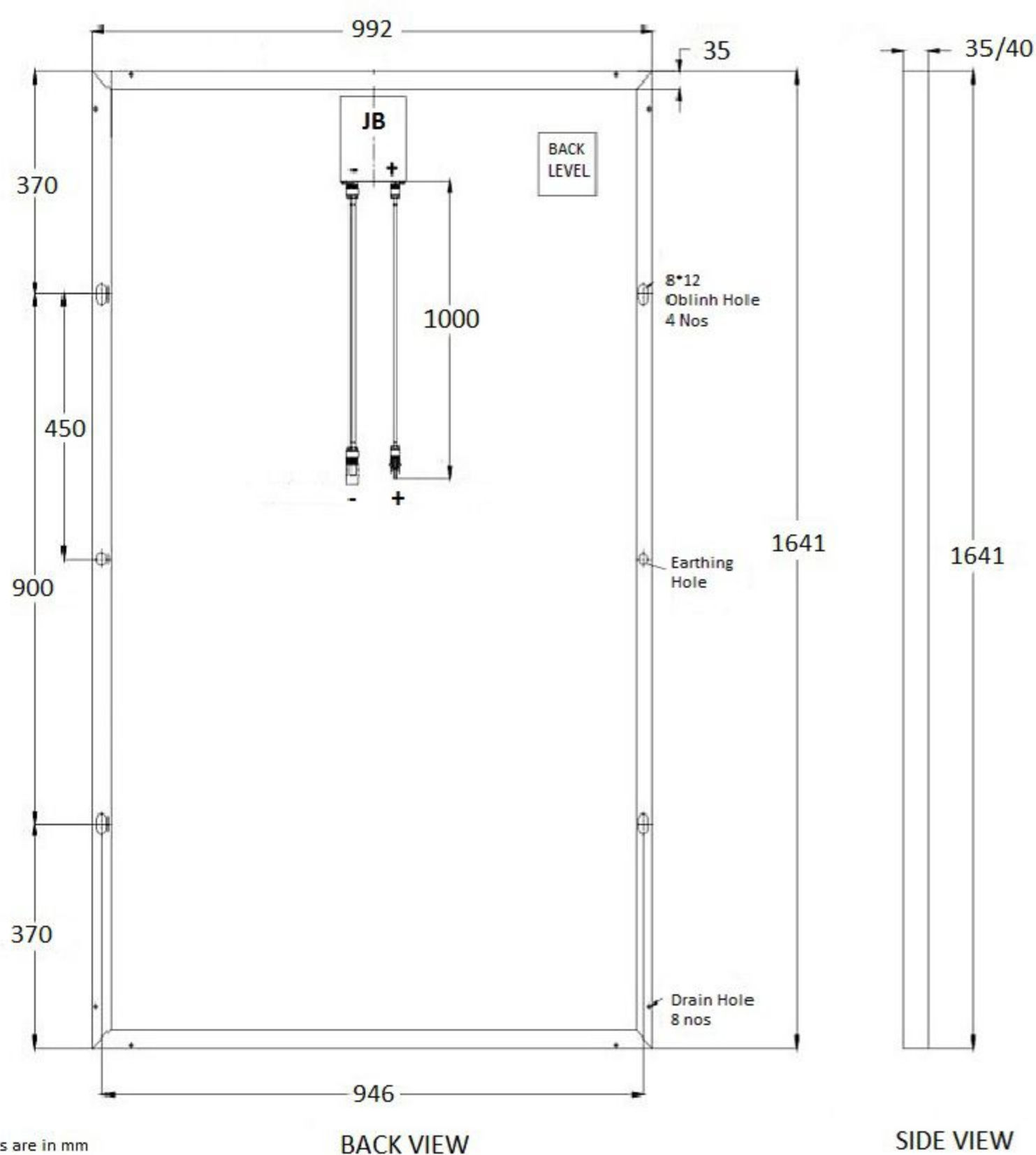
Packaging

Module pieces per box	2
Module Box size	1680*90*1020

Guarantees & Certificate

Product warranty	10 years
Performance guarantee	90% for first 10 years
Approvals	IEC61215, IEC61730 & BIS

REGISTER OFFICE:
MAHATHI ENGINEERING INDUSTRIES PVT LTD
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All dimensions are in mm

BACK VIEW

SIDE VIEW

Technical data are subject to change without prior notice, errors excepted.

