

SIRAJ 5BB POLY

HIGH RETURN ON INVESTMENT

- Excellent for large scale installations.
- 1500V IEC certified.
- High power footprint reduces installation time and BOS costs.

LOW COST MODULE

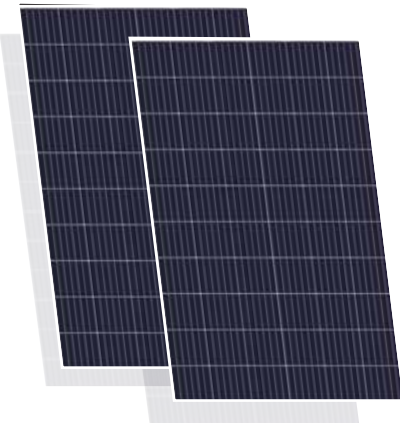
- High quality polycrystalline 5BB cells.

EXCELLENT WITHSTAND CHALLENGING ENVIRONMENTAL CONDITIONS

- 35mm hail stones at 97 km/h.
- 2400 Pa wind load and 5400 Pa snow load.

EXCELLENT DURABILITY RELIABILITY PERFORMANCE

- Excellent PID resistant.
- All modules have to pass electroluminescence inspection.



60 CELL

**POLYCRYSTALLINE
MODULE**

5BB

CELL DESIGN

275W

POWER RANGE



MANAGEMENT SYSTEM CERTIFICATES

ISO 9001:2015

ISO 14001 :2015



PRODUCT CERTIFICATES

IEC 61215:2016

IEC 61730:2016



PRODUCT CERTIFICATES

OHSAS 18001 :2007

10 Years

Product Warranty

25 Years

Linear Performance
Warranty

HEADQUARTER

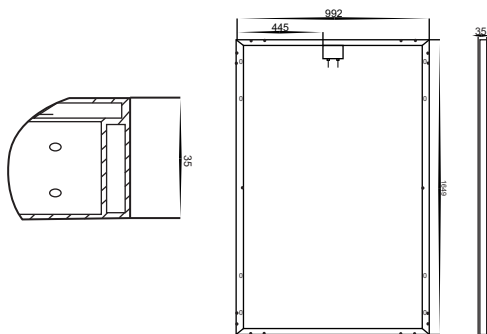
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FACTORY

The industrial Zone of Boukerana, N 499,
Chelghoum El Aid, Mila, Algeria

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ENGINEERING DRAWINGS



MECHANICAL SPECIFICATION

Module dimension	1649*992*40 mm
Number of cells	60
Weight	18kg
Cell type	Polycrystallines M2 cells
Glass	3,2mm thickness fully tempered
Backsheet	White backsheet (1500V)
Frame	Aluminium
Jbox	IP67, 3 diodes
Cables	4mm ² (1500V)
Connector	QC4.10 (1500V)

TEMPERATURE CHARACTERISTICS

Temperature coefficient of P _{MAX}	-0.406% / °C
Temperature coefficient of V _{OC}	-0.308% / °C
Temperature coefficient of I _{SC}	0.057% / °C
Nominal Operating Cell Temperature (NOTC)	45°C

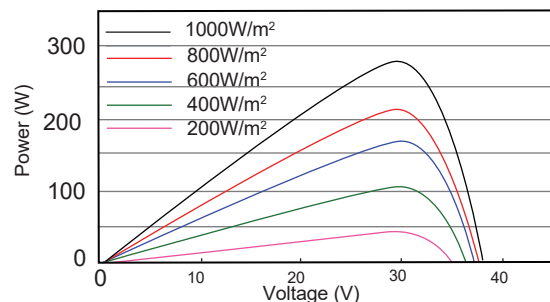
MAXIMUM RATINGS

Operational temperature	-40°C to + 85°C
Maximum system voltage	1500 V
Maximum rated current	15A

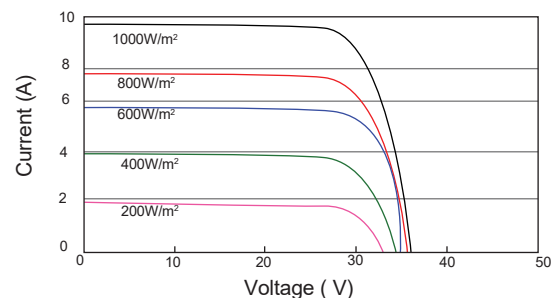
ELECTRICAL CHARACTERISTICS

			275	270	265
STC (Spectrum of AM 1.5 Irradiation 1000W/M2 Cell temperature 25°C)	Maximum rated power (P _{max})(0~+3%)	W	275	270	265
	Maximum power voltage (V _{mp})	V	32.34	32.4	32.1
	Open circuit voltage (V _{oc})	V	38.51	37.9	37.6
	Maximum power current (I _{mp})	A	8.94	8.4	8.3
	Short circuit current (I _{sc})	A	9.45	8.9	8.8
	Module efficiency	%	17.32	17.0	16.7
NOTC (Spectrum of AM 1.5 Irradiation 800W/M2 Cell temperature 20°C and wind speed 1m/s)	Maximum rated power (P _{max})	W	214.5	202	198
	Maximum power voltage (V _{mp})	V	29.94	30	29.7
	Open circuit voltage (V _{oc})	V	35.7	35.2	34.9
	Maximum power current (I _{mp})	A	7.16	7	6.55
	Short circuit current (I _{sc})	A	7.6	7.2	7.1

POWER-VOLTAGE CURVE



HIGH-VOLTAGE CURVE



STC: Irradiance 1000W/m2

Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m2

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s

* Power measurement tolerance: ± 3%

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