

SIRAJ

5BB MONO-PERC



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 monocrystalline PERC 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

**MONOCRYSTALLINE
MODULE**

PERC

**CELL
TECHNOLOGY**

320W

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

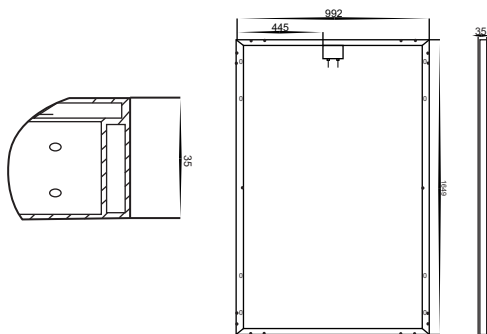
31, Coop Marhaba Draria, Algiers, Algeria
Tel: +213.23.33.05.62
www.milltech-dz.com

FACTORY

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

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inspiring you

ENGINEERING DRAWINGS



MECHANICAL SPECIFICATION

Module dimension	1649*992*35 mm
Number of cells	60
Weight	18kg
Cell type	PERC Monocrystallines 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}	-0.390% / °C
Temperature coefficient of V _{OC}	-0.300% / °C
Temperature coefficient of I _{SC}	0.060% / °C
Nominal Operating Cell Temperature (NOTC)	45°C

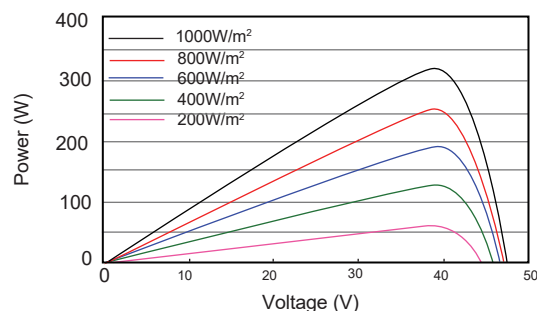
MAXIMUM RATINGS

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

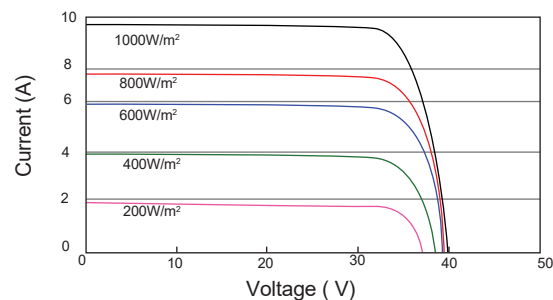
ELECTRICAL CHARACTERISTICS

			320	315	310
STC (Spectrum of AM 1.5 Irradiation 1000W/M2 Cell temperature 25°C)	Maximum rated power (P _{max})(0~+3%)	W	320	315	310
	Maximum power voltage (V _{mp})	V	33.92	33.80	33.5
	Open circuit voltage (V _{oc})	V	39.86	39.80	39.56
	Maximum power current (I _{mp})	A	9.36	9.26	9.18
	Short circuit current (I _{sc})	A	9.86	9.81	9.75
	Module efficiency	%	19.6	19.1	18.8
NOTC (Spectrum of AM 1.5 Irradiation 800W/M2 Cell temperature 20°C and wind speed 1m/s)	Maximum rated power (P _{max})	W	238	235	231
	Maximum power voltage (V _{mp})	V	32.2	31.7	31.2
	Open circuit voltage (V _{oc})	V	38	37.4	36.8
	Maximum power current (I _{mp})	A	7.64	7.52	7.4
	Short circuit current (I _{sc})	A	8.05	7.93	7.8

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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