

**MONO-PERC TECHNOLOGY  
M3 60 CELL  
320W – 335W POWER RANGE**



**HIGH RETURN ON INVESTMENT**

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



**HIGHER OUTPUT POWER PER SURFACE**

- High quality monocrystalline PERC M3 cells.



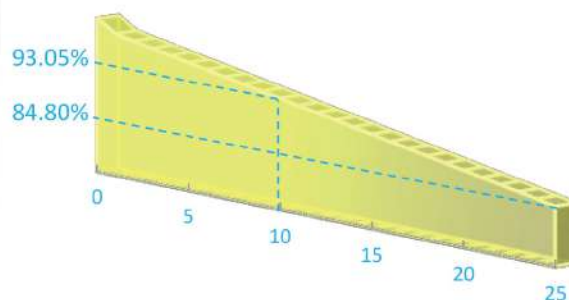
**EXCELLENT WITHSTAND CHALLENGING ENVIRONMENTAL CONDITIONS**

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



**EXCELLENT DURABILITY RELIABILITY PERFORMANCE**

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



First year maximum power degradation: **2%**  
Subsequent maximum annual power degradation: **0.55%**



**PRODUCT CERTIFICATES**

- IEC 61 215 : 2016
- IEC 61 730 : 2016



- OHSAS 18 001 : 2007

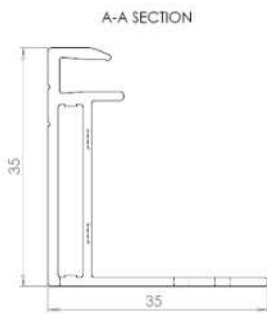
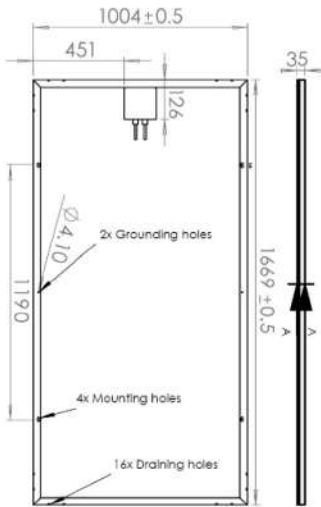


**MANAGEMENT CERTIFICATES**

- ISO 9 001 :2015
- ISO 14 001 :2015



**MECHANICAL SPECIFICATIONS**



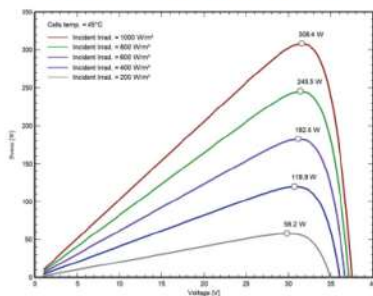
<b>Module dimension</b>	1669X1004X35mm	<b>Back-sheet</b>	White back sheet
<b>Number of Cells</b>	60	<b>Frame</b>	Aluminium
<b>Weight</b>	18Kg	<b>Junction box</b>	IP67, 3diodes
<b>Cell type</b>	Perc Monocrystalline M3 cells	<b>Cables</b>	4mm <sup>2</sup> (1500V)
<b>Front-sheet</b>	3.2mm tempered glass	<b>Connector</b>	QC4.10 (1500V)

**ELECTRICAL CHARACTERISTICS**

	320	325	330	335	
<b>STC</b> Air Mass 1.5; Irradiance 1000W/m <sup>2</sup> ; cell temperature 25°C	Maximum rated power (P <sub>max</sub> ) (0 ~ +5)	320	325	330	335
	Maximum power voltage (V <sub>mp</sub> )	33.69	34.1	34.33	34.65
	Open circuit voltage (V <sub>oc</sub> )	39.63	39.98	40.16	40.42
	Maximum power current (I <sub>mp</sub> )	9.53	9.59	9.63	9.68
	Short circuit (I <sub>sc</sub> )	10.06	10.1	10.14	10.18
	Module efficiency (%)	18.36	18.65	18.93	19.22
<b>NOCT</b> Air Mass 1.5; Irradiance 800W/m <sup>2</sup> ; ambient temperature 20°C	Maximum rated power (P <sub>max</sub> ) (0 ~ +5)	236	240	244	248
	Maximum power voltage (V <sub>mp</sub> )	30.65	31.03	31.24	31.48
	Open circuit voltage (V <sub>oc</sub> )	32.1	32.28	32.52	32.76
	Maximum power current (I <sub>mp</sub> )	8.95	9.01	9.05	9.09
	Short circuit (I <sub>sc</sub> )	8.04	8.08	8.11	8.15

Measuring power tolerance: ±3%

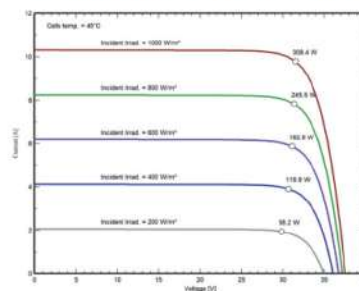
**POWER-VOLTAGE CURVE**



**MAXIMUM RATINGS**

Operational temperature	-40 o +85°C
Maximum system voltage	1500 V
Maximum series fuse rating	20 A

**CURRENT-VOLTAGE CURVE**



**TEMPERATURE CHARACTERISTICS**

Temperature coefficient of P <sub>max</sub>	-0.390%/°C
Temperature coefficient of V <sub>oc</sub>	-0.300%/°C
Temperature coefficient of I <sub>sc</sub>	0.060%/°C
Nominal Operating Cell Temperature (NOCT)	45°C

