

# ASUN230-P



## 230W Polycrystalline Photovoltaic Module

FULL  
QMS

### Quality Management System

- ✓ Raw material and module traceability
- ✓ Control of raw material
- ✓ Products manufacturing control
- ✓ Finished products inspection



- ✓ 100% finished modules flashed
- ✓ Flash report provided to customer
- ✓ 100% electroluminescence test



- ✓ 10-year material warranty
- ✓ Power output warranty:
  - 95% of the power on 5 years
  - 90% of the power on 12 years
  - 85% of the power on 18 years
  - 80% of the power on 25 years



- ✓ Error and Omission Insurance (Chubb Group): cover the economic loss sustained due to operational defects or performance failures



Clean Energy Council



Factory certified

142W/m<sup>2</sup>



Certification:

- ✓ MCS
- ✓ IEC61215 & IEC61730

# Technical

## Electrical Data

Maximum Power (Pmax)	230W
Tolerance	+/- 2%
Maximum Power Voltage (Vpm)	29.1V
Maximum Power Current (Ipm)	7.90A
Open Circuit Voltage (Voc)	36.66V
Short Circuit Current (Isc)	8.38A
Cell efficiency	16%
Module efficiency	14.2%
Maximum System Voltage	1000V

STC: irradiation 1000W/m2, AM 1,5 and temperature 25°C

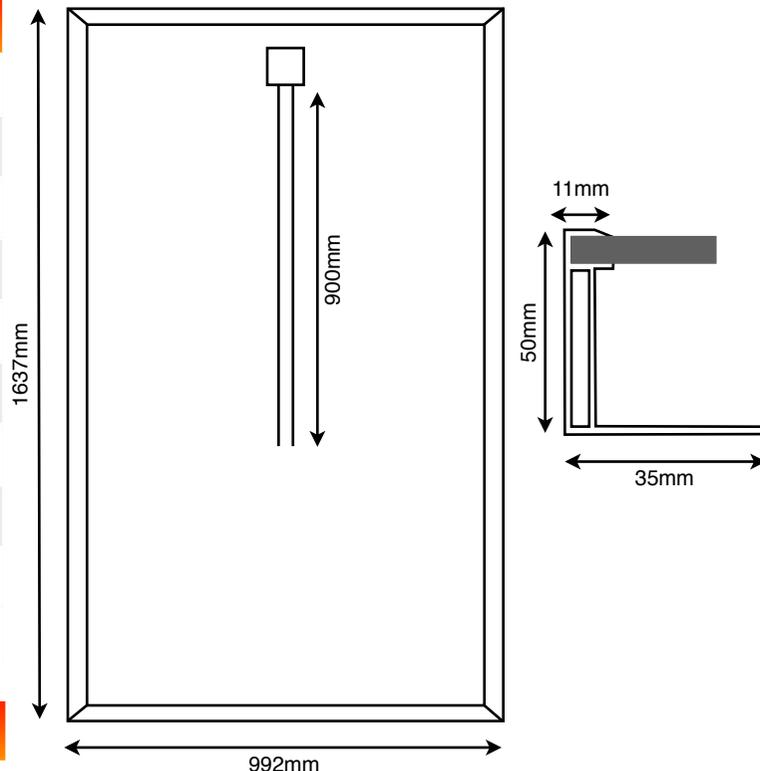
## Performance at 800W/m2

Maximum Power Voltage (Vpm)	28.95V
Maximum Power Current (Ipm)	6.31A

NOCT, 800W/m2, AM 1,5 and 25°C

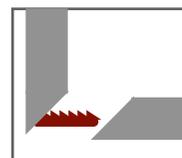
## Temperature Coefficient

NOCT	45°C +/-2%
Voltage Temperature (Voc)	-0.34%/°C
Current Temperature (Isc)	+0.046%/°C
Power Temperature (Pm)	- 0.45%/°C



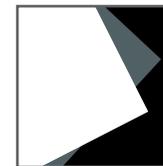
## Mechanical Data

Number of Cells	60 (6 x 10)
Cell Dimension	156*156mm
Bypass diodes	4
Glass Thickness	3.2mm
Maximum Load	5400Pa
Weight	20.2Kg
Dimensions	1637*992*50mm
Cable length / section	900mm / 4mm <sup>2</sup>
Connectors	MC4 compatible
Operating Temperature	-40°C to +85°C



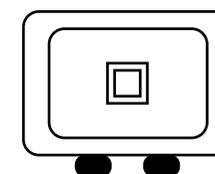
### Frame

Built-in aluminium angle makes the frame stronger and reliable on long-term. Angle is set inside the frame cavity.



### Back sheet

- Improved aesthetic appearance
- Anti-UV and Anti-Yellowing
- Ultimate moisture barrier
- Proven durability



### Junction box

- IP65
- Fire resistance
- Excellent electrical insulation of components
- Stability and flexibility over a wide temperature range