

# DATASHEET

## Solar Module 50W



**ECAMI S.A.**  
¡Somos su Solución Energética!

### MODEL: SUN 50 – 36P

#### PV MODULE ELECTRICITY PERFORMANCE PARAMETER

Cell Type:	Polycrystalline silicon solar cell
Maximum Power (Pmax)	50W
Voltage at Pmax (Vmp)	17.6V
Current at Pmax (Imp)	2.86A
Open-circuit voltage (Voc)	22.0V
Short circuit current (Isc)	3.03A
Max System Voltage:	600V
Temperature Range	-45°C ~ +80°C

**NOTE: POWER MEASURED UNDER STANDARD TEST CONDITIONS:  
1000W/M<sup>2</sup> AM 1.5 GLOBAL, 25°C - CELL TEMPERATURE**

#### WARNING!

This solar module produces electricity when exposed to light. Cover all modules in the PV array with opaque material before making any wiring connections or opening the terminal box.



#### Key Features:

- High module efficiency and stable power output
- Based on leading process technology
- Outstanding electrical performance under high temperature conditions or low irradiance conditions
- Easy of installation and all-weather applications
- 5 years product warranty(materials and workmanship)
- 20 years module power output warranty
- Peak power of single module is guaranteed in +3% power tolerance
- Strong framed module, passing loaded test of 5400 Pa (IEC61215 2nd)
- The manufacture is certified for ISO 9001:2008

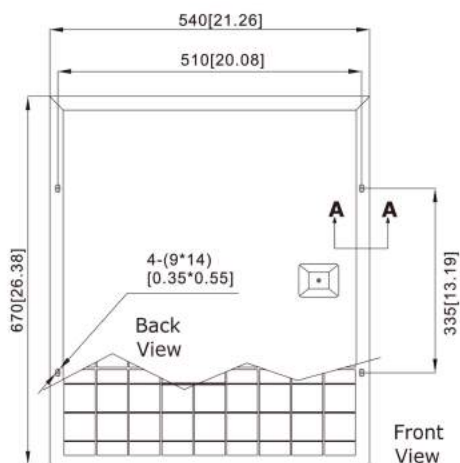
#### Product's Guarantee

- 5 years products life warranty
- 15 years module power output no less 90%
- 20 years module power output no less 80%

#### Applications

- Off grid residential roof-tops
- Off grid commercial/industrial roof-tops
- Rural area applications
- Solar power system
- Other off-grid applications

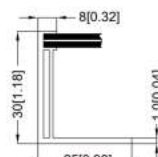
#### Module Diagram



Dimensions in brackets are in inches.  
Un-bracketed dimensions are in millimeters.  
Unit:mm[in.]



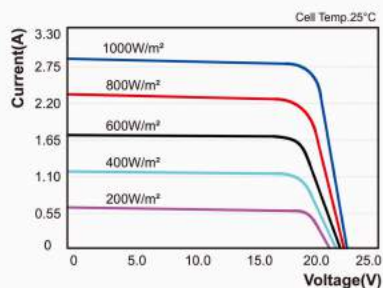
Junction Box  
Top View (Lid open)



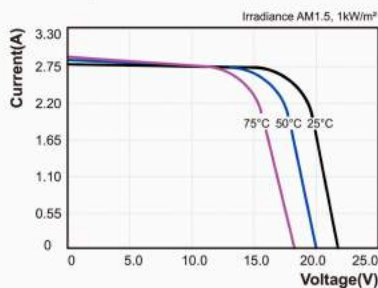
Section A-A

#### I-V Curves

I-V Curves of PV module SY-M50W



I-V Curves of PV module SY-M50W at various cell temperatures



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