

# 230w Polycrystalline

### Photovoltaic Solar Module

#### Overview

- Lateset generation high-efficient polycrystalline cell techonology
- Higher cell efficiency achieved through Grade "A" silicon solar cells for long term reliability and performance
- Output tolerance of -0,+3% ensures the promised system output power is delivered
- Durable anodized aluminum frame offers strong mechanical and lightweight structure for almost any application
- Low-iron tempered glass

## Warranty & Certification

- 25 years 80% Power Output Warranty
- 10 years 90% Power Output Warranty
- 5 years Complete Frame-to-Frame Warranty on Materials and worksmanship
- Perfomance Warranty Insurance for the duration of the warranty (undertaken by Chubbs Ins.)
- UL1703, ULC/ORD C-1703-1

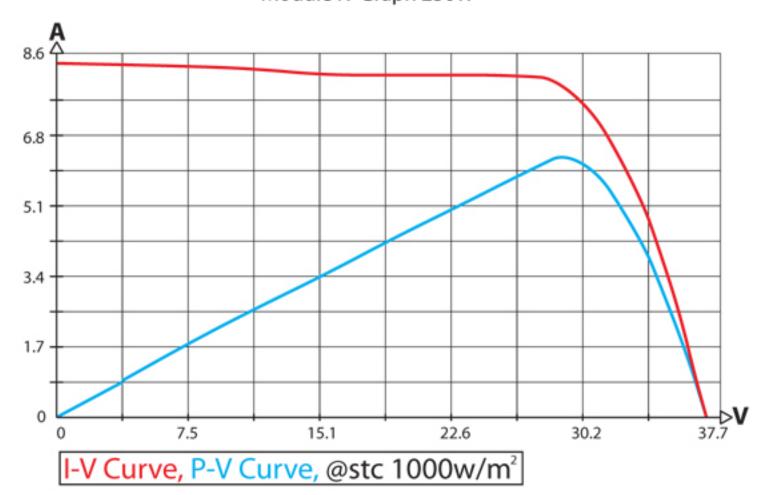


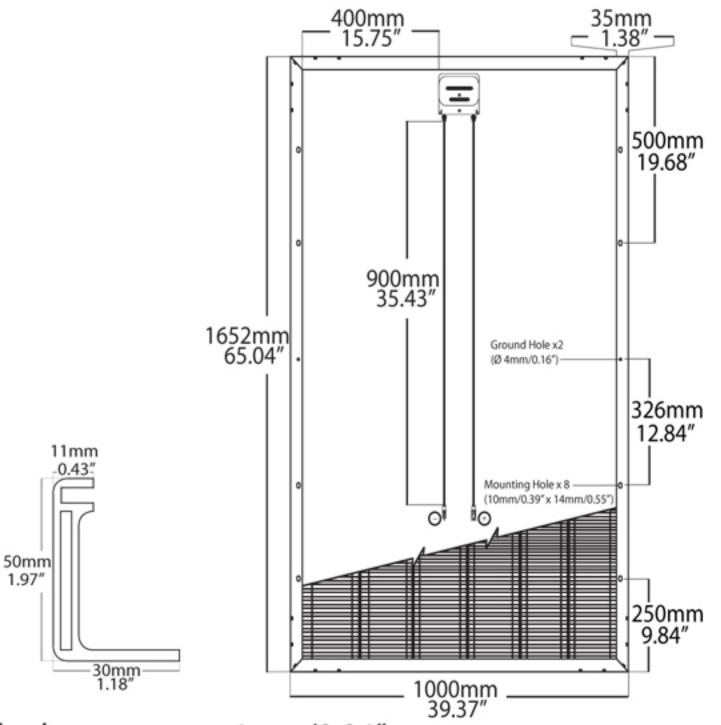


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## ESP-230-L

## ESP-230-L Characteristics Module IV Graph 230W





All tolerances are ±1mm/0.04"

Mechanical Data		
Solar Cell	60 Poly-crystalline 156 x 156 mm	
Front Glass	3.2mm tempered	
Junction Box	IP65 Rated	
Output Cables	>900mm length with MC4 compatible connectors	
Frame	Anodized aluminium	
Weight	20kg	
Dimension	1652 x 1000 x 50mm	

**Specification Sheet** 

Eletrical Specification STC: 1000W/m²,25°C, AM= 1.5		
Nominal peak power(Wp)	230w	
Nominal voltage(Vmpp) at STC	29.9V	
Nominal current(Impp) at STC	7.69A	
Open circuit voltage(Voc) at STC	37.2V	
Short circuit current(Isc) at STC	8.59A	
Maximum System Voltage	600V DC	

Temperature Coefficients NOCT (Nominal Operating Cell Temperature): -40 ℃ to +85 ℃		
NOCT	45 +/-2°C	
Voltage temperature coefficient(Voc)	-0.36%/°C	
Current temperature coefficient(lsc)	+0.033%/C	
Power temperature coefficient(Pmpp)	-0.48%/°C	





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CAUTION: Read Saftey and Installation Instructions Before Using the Product. For more information, go to www.ecosunpv.com

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