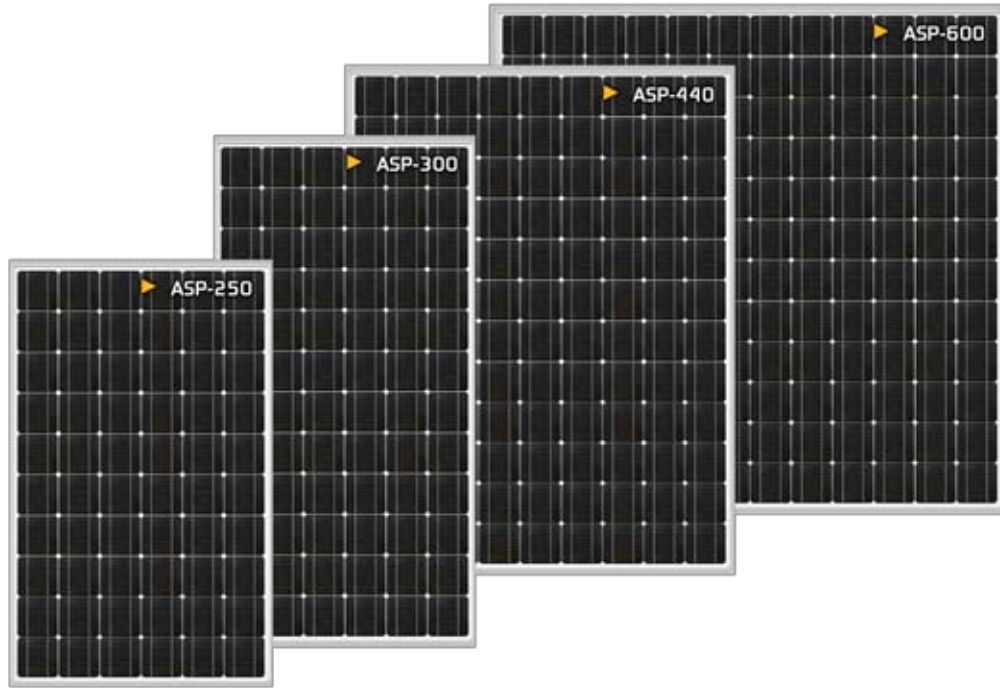




## HIGH EFFICIENCY MONOCRYSTALLINE SOLAR MODULES



### ASP-250 MONOCRYSTALLINE SILICON SOLAR PANELS

ASP is focused on manufacturing monocrystalline solar panels with the highest standards, latest technology and the most innovative manufacturing methods possible. Through our process we have reduced the cost of manufacturing to create increased savings to the end user. The ASP-250 is a high powered solar electric module ideal for maximizing ones building or roof space, thus utilizing the amount of grid connected energy it can offset. The ASP-250 Solar Panels are "Buy American Act" compliant and provide outstanding energy delivery for residential and commercial applications.



# ASP - 250

## Technical features:

- Highly efficient monocrystalline solar module
- Module efficiency of up to 16.9 %
- Optimized for commercial and residential applications
- Corrosion resistant anodized aluminum frame with twin wall profile and built - in drainage holes
- Certified, tested and warranted for years of trouble - free, dependable service

## Electrical Specifications

Parameter	Value		
Model	ASP-250-B	ASP-250-C	ASP-250-A*
Rated Power(Pmax)	235 W	240 W	242 W
Maximum Power Voltage (Vpm)	29.93 V	29.8 V	30.29 V
Maximum Power Current (Ipm)	7.93 A	8.06 A	7.99 A
Open Circuit Voltage (Voc)	37.50 V	36.50 V	37.68 V
Short Circuit Current (Isc)	8.52 A	8.6 A	8.57 A
NOCT	47 °C	44 °C	44 °C
CEC PTC Rating	210 W	N/A	N/A
Cell Efficiency	17.2%	17.2%	17.2%
Watts per Ft.²	13.31 W	13.60 W	13.71 W
Maximum System Voltage	600 V / 1000 V	600 V / 1000 V	600 V / 1000 V
Series Fuse Rating	15 A	15 A	20 A
Electrical Tolerance (+/-)	±5%	±3%	±5%
Rated Power Tolerance (+/-)	+4.99 W/-OW	+4.99 W/-OW	+4.99 W/-OW

Measured at Standard Test Conditions (STC): Irradiance of 1000W /m², air mass of 1.5g cell temperature of 25°C

## Temperature Coefficient

Parameter	Value		
Temp Coefficient: Voltage - β, Voc (%/°C)	-0.335	-0.36	-0.335
Temp Coefficient: Current - α, Isc (%/°C)	+0.0481	+0.10	+0.0481
Temp Coefficient: Power - Pmax (%/°C)	-0.51	-0.50	-0.51

## Mechanical Specifications

Parameter	Value		
Solar Cells	60 Cells, Monocrystalline, 6x10 Matrix		
Junction Box Internal Bypass Diodes	3 Bypass Diodes		
Glass Cover	0.126" (3.2 mm)	0.157" (4.0 mm)	0.126" (3.2 mm)
Module Area	17.61 ft.² (1.64m²)	17.89 ft.² (1.66m²)	17.61 ft.² (1.64m²)
Weight	42 lbs. (19kg)	53 lbs. (24kg)	42 lbs. (19kg)
Frame Type	Anodized Aluminum Alloy frame with twin-wall profile and drainage holes		
Dimensions (LxWxH)	See Technical Drawing		
Cable Length (+Male / -Female)	39" (1000 mm)		
Cable Size / Connector Type	No. 12 AWG / MC4™ Locking Connectors		
Cell encapsulation	EVA (Ethylene Vinyl Acetate)		

## Operation Conditions & Safety Ratings

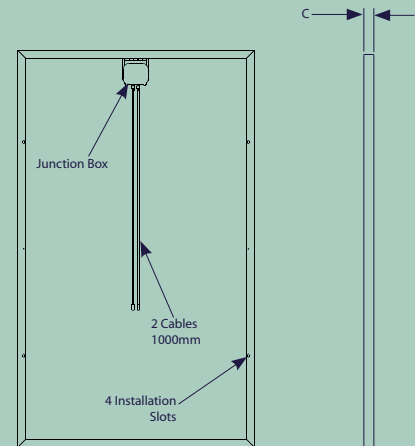
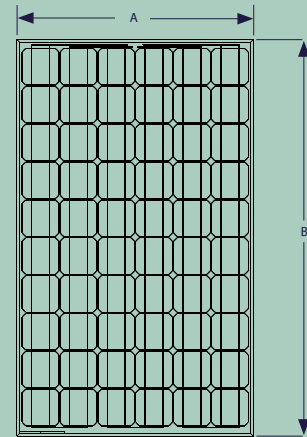
Parameter	Value		
Ambient Operating Temperature	-40 °F to 194 °F (-40 °C to 90 °C)		
Fire Safety Classification	Class C Fire Rating		
Max. Surface Resistance (Front & Back)	5400Pa (204MPH)	50PSF (2400Pa)	N/A
Hail Impact Rating	1" Ø (25 mm) at 52 mph (23 m/s)		

## Warranty & Certifications

Parameter	Value		
Warranty	25 year limited power warranty, 10 year limited product warranty		
Warranted Tolerance (+/-)	±5%		
Certifications	UL1703, IEC 61215, IEC 61730, CE and Class C Fire Rating		

\*ASP-250-A, is currently under development

## ASP-250 Technical Drawing



Model	Dimension A	Dimension B	Dimension C
ASP-250-B	987mm (38.87")	1657mm (65.25")	41.3mm (1.62")
ASP-250-C	997mm (39.25")	1669mm (65.62")	44.4mm (1.75")
ASP-250-A	987mm (38.87")	1657mm (65.25")	41.3mm (1.62")



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400 Rinehart Road #1060 • Lake Mary, FL 32746 USA  
 www.advancedsolarphotonics.com • info@advancedsolarphotonics.com  
 Tel: 407.804.1000 • Fax: 407.333.9143