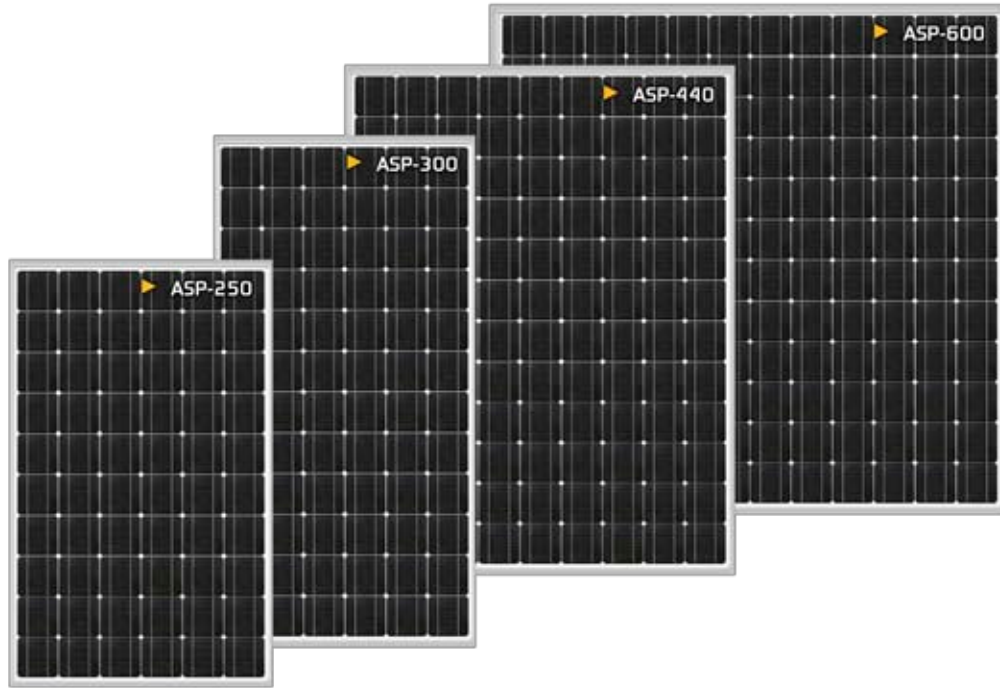




HIGH EFFICIENCY MONOCRYSTALLINE SOLAR MODULES



ASP-440 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-440 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-440 Solar Panels are "Buy American Act" compliant and provide outstanding energy delivery for residential and commercial applications.



ASP - 440

(Under Development)

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-440
Rated Power(Pmax)	436 W
Maximum Power Voltage (Vpm)	54.57 V
Maximum Power Current (Ipm)	7.99 A
Open Circuit Voltage (Voc)	67.89 V
Short Circuit Current (Isc)	8.57 A
NOCT	44 °C
CEC PTC Rating	407 W
Cell Efficiency	17.2%
Watts per Ft. ²	13.92 W
Maximum System Voltage	600 V / 1000 V
Series Fuse Rating	20 A
Warranted Tolerance (+/-)	±5%

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

Temperature Coefficient

Parameter	Value
Temperature Coefficient: Pmax	-0.4% / °C
Temperature Coefficient: Voc	-0.21 mV / °C
Temperature Coefficient: Isc	2.5 mA / °C

Mechanical Specifications

Parameter	Value
Solar Cells	108 Cells, Monocrystalline
Junction Box Internal Bypass Diodes	3 Bypass Diodes
Glass Cover	0.126" (3.2 mm)
Module Area	31.33 ft. ² (2.91m ²)
Weight	72 lbs. (32kg)
Frame Type	Anodized Aluminum Alloy frame with twin-wall profile and drainage holes
Dimensions (LxWxH)	77.17" x 58.47" x 1.65" (1960mm x 1485mm x 42mm)
Cable Length (+Male / -Female)	1300 / 1100 mm
Cable Size / Connector Type	No. 12 AWG / MC4™ Locking Connectors

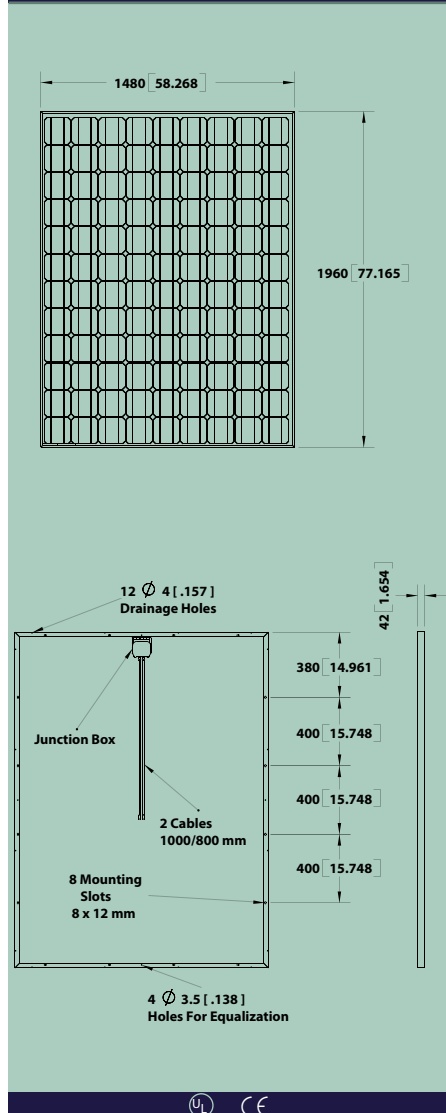
Operation Conditions & Safety Ratings

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)	50PSF (2400Pa)
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
Certifications	UL1703, IEC 61215, IEC 61730, CE and Class C Fire Rating

ASP-440 Technical Drawing



The contents of this document are subject to revision without notice. ASP shall not be liable for any errors contained in this material or for incidental or consequential damages in connection with the listed performance or use of this material.



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