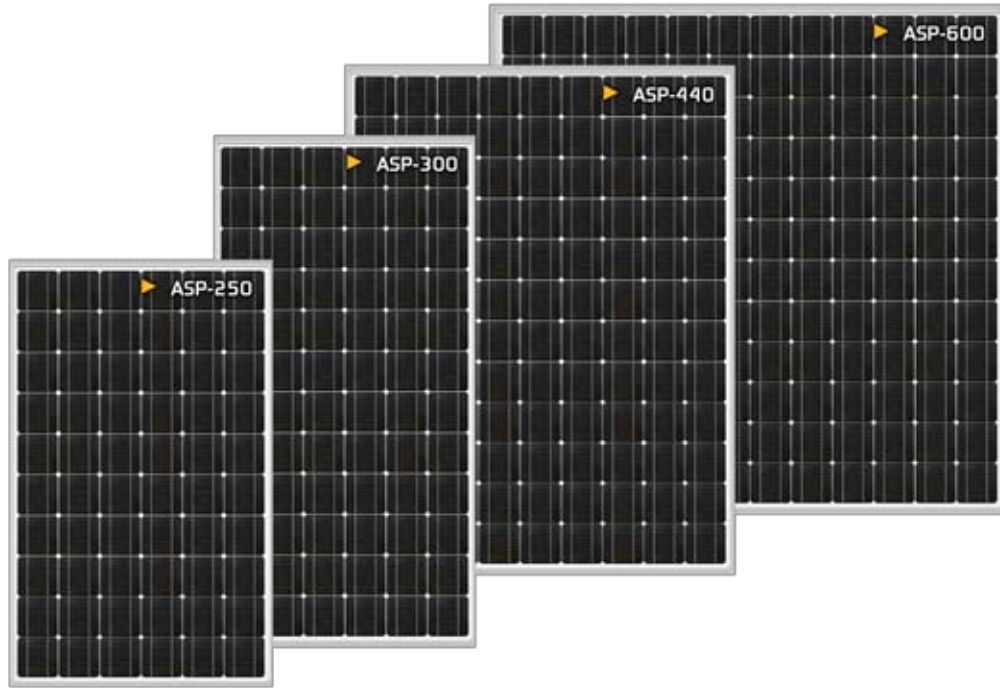




HIGH EFFICIENCY MONOCRYSTALLINE SOLAR MODULES



ASP-300 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-300 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-300 Solar Panels are "Buy American Act" compliant and provide outstanding energy delivery for residential and commercial applications.



ASP - 300

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-300 |
| Rated Power(Pmax) | 300 W |
| Maximum Power Voltage (Vpm) | 36.55 V |
| Maximum Power Current (Ipm) | 8.46 A |
| Open Circuit Voltage (Voc) | 44.97 V |
| Short Circuit Current (Isc) | 8.68 A |
| NOCT | 44 °C |
| CEC PTC Rating | 289 W |
| Cell Efficiency | 17.2% |
| Watts per Ft. ² | 14.2 W |
| Maximum System Voltage | 600 V / 1000 V |
| Series Fuse Rating | 15 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: Voltage | β, Voc (%/°C) -0.36 |
| Temperature Coefficient: Current | α, Isc (%/°C) +0.10 |
| Temperature Coefficient: Power | P_{max} (%/°C) -0.50 |

Mechanical Specifications

| Parameter | Value |
|-------------------------------------|---|
| Solar Cells | 72 Cells, Monocrystalline |
| Junction Box Internal Bypass Diodes | 3 Bypass Diodes |
| Glass Cover | 0.126" (3.2 mm) |
| Module Area | 21.13 ft. ² (1.96m ²) |
| Weight | 55 lbs. (25kg) |
| Frame Type | Anodized Aluminum Alloy frame with twin-wall profile and drainage holes |
| Dimensions (LxWxH) | 77.17" x 38.98" x 1.65" (1960mm x 990mm x 42mm) |
| Cable Length (+Male / -Female) | 1300 / 1100 mm |
| Cable Size / Connector Type | No. 12 AWG / MC4™ Locking Connectors |

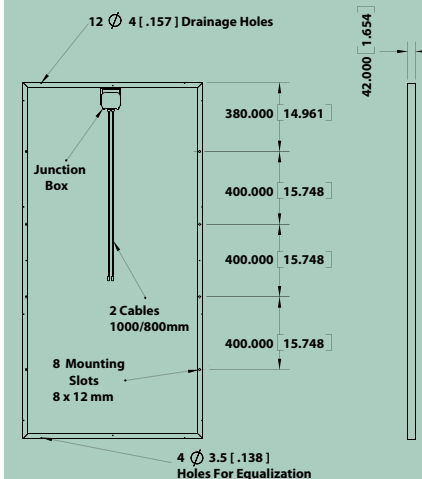
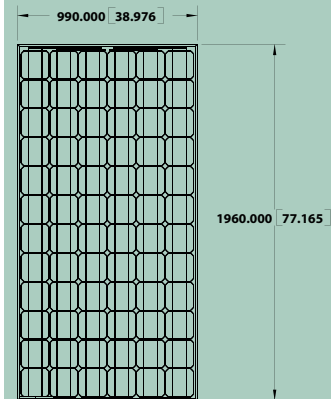
Operation Conditions & Safety Ratings

| 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-300 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.



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