American Solar

WHOLESALE

"QUALITY YOU CAN COUNT ON"

Polycrystalline

240/245/250/255/260

Made In USA & Made Abroad Lines

Features

- Top Ranked PTC Rating
- High Module Conversion Efficiency
- Fast and Inexpensive Mounting
- Maximizes System Output by Reducing the Mismatch Loss.
- 100% EL Testing on All ASW Modules, Guaranteed No Hotspot
- Guaranteed Positive Output Tolerance (0+3%)
- Withstand High Wind (2400 Pa) and Snow Loads (5400 Pa)
- Excellent Performance in Low Light Environments

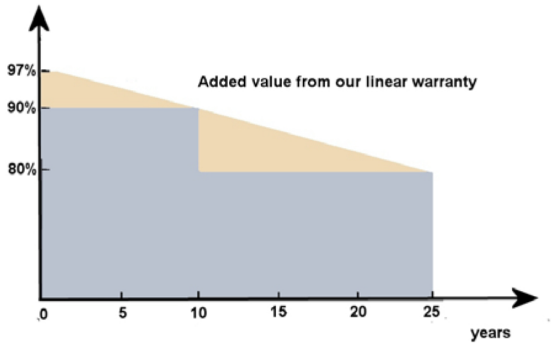
Function

- On-grid Rooftop / Ground Mounted
- Residential / Commercial / Power Stations
- Compatible with Enphase Inverters

Precautions

Only qualified personnel should install or perform maintenance. Please read the American Solar Wholesale Installation Manual before installation. Be aware of dangerously high DC voltage; Do not install modules when wet or broken.

Linear Warranty



All ASW solar modules are guaranteed to perform for 25 years from the date of purchase. Performance standards insure linear production levels starting at 97.5% at the end of the first year and a maximum decrease of only .07% each year thereafter.

- 5 years at 95% or above
- 5 more years at 90% or above
- 15 more years at 80% or above
- 10 year material & workmanship guarantee

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Electrical

Maximum Power at STC (Pmax)	240 W	245W	250W	255W	260W
PV USA Test Conditions (PTC)	216.0W	220.8W	225.4W	229.8W	234.1W
Optimum Operating Voltage (Vmp)	29.80 V	29.90 V	30.20 V	30.30 V	30.40 V
Optimum Operating Current (Imp)	8.05 A	8.19 A	8.29 A	8.43 A	8.56 A
Open-Circuit Voltage (Voc)	37.00 V	37.10 V	37.30 V	37.40 V	37.60 V
Short-Circuit Current (Isc)	8.69 A	8.74 A	8.84 A	8.98 A	9.09 A
Module Efficiency	14.6 %	14.9%	15.3%	15.6%	15.9%
Cell Efficiency	16.9 %	17.1%	17.2%	17.6%	17.9%

STC: Irradiance 1000 W/m², module temperature 25°C, AM=1.5

Mechanical

Solar Cell	Polycrystalline 156 x 156mm (6 inches)
No. of Cells	60 (6 x 10)
Dimensions	1640 x 992 x 50mm (65.0 x 39.0 x 1.97 inches)*
Weight	19.0 kgs (41.9 lbs)
Front Glass	3.2 mm (0.13 inches) tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP67 rated
Output Cables	4.0 mm² (0.006 inches²),1200mm (47.2 inches)
Connectors	MC4 connectors
Fire Rating	Classs C
UL Listed	UL 1703

Temperatures

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.44%/°C
Temperature Coefficient of Voc	-0.30%/°C
Temperature Coefficient of Isc	0.04%/°C

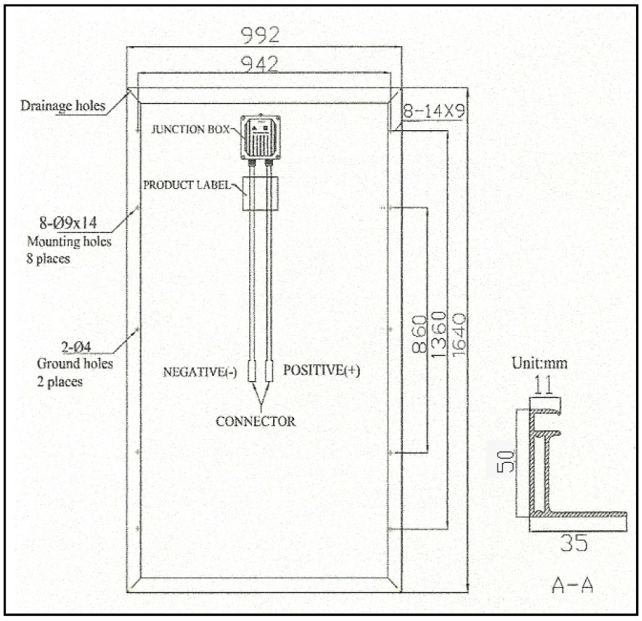
Maximum Ratings

Operating Module Temperature	-40°C to +90°C
Maximum System Voltage	600 V DC (UL)/ 1000 V DC (IEC)
Maximum Series Fuse Rating	15 A
Per Pallet	6 pcs (20' CTN)/29 pcs (40' CTN)

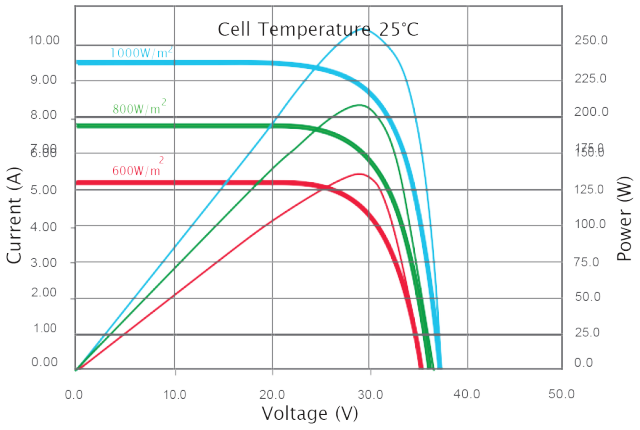
Packaging

Per Container	342 pcs (20' CTN)/812 pcs (40 ' CTN)

Diagram



I-V Curves



Current, Power vs. Voltage Characteristics of ASW-240P

Current vs. Voltage Power vs. Voltage

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