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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**American Solar Wholesale  
ASW 245-265M  
ASW 245M**

Also available on the web at  
[EnergyPal.com/american-solar-wholesale-solar-panels/asw-245m](http://EnergyPal.com/american-solar-wholesale-solar-panels/asw-245m)

## Monocrystalline

245/250/255/260/265

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

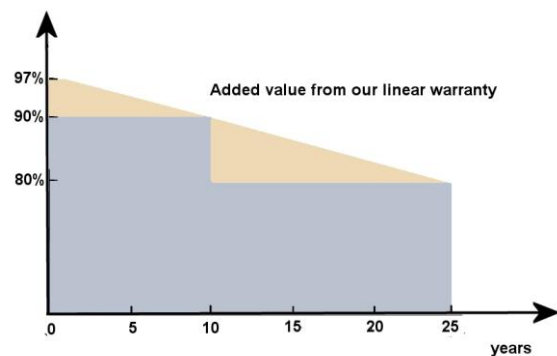
### Function

- 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



# Electrical

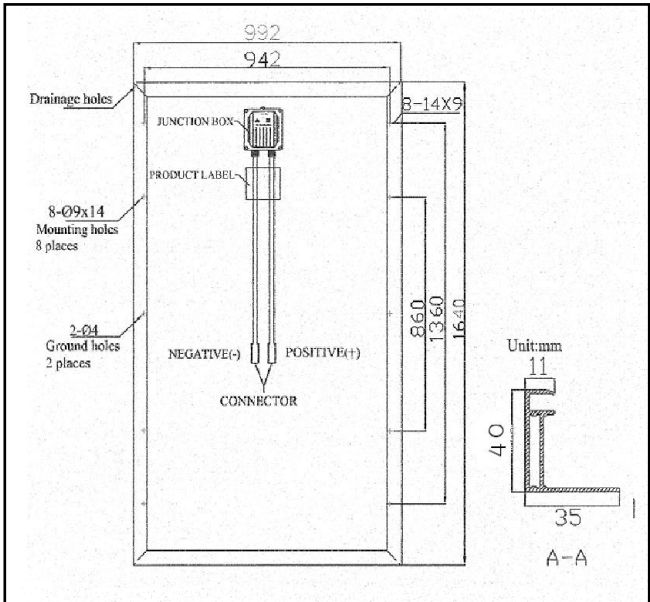
Maximum Power at STC (Pmax)	245W	250W	255W	260W	265W
Optimum Operating Voltage (Vmp)	30.00 V	30.10 V	30.20 V	30.40 V	30.60 V
Optimum Operating Current (Imp)	8.19 A	8.32 A	8.44 A	8.55 A	8.66 A
Open-Circuit Voltage (Voc)	37.40 V	37.50 V	37.60 V	37.70 V	37.80V
Short-Circuit Current (Isc)	8.79 A	8.87 A	8.99 A	9.10 A	9.16 A
Module Efficiency	15.00%	15.3%	15.6%	15.9%	16.2%
Cell Efficiency	17.7%	18.1%	18.3%	18.5%	18.7%

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25°C, AM=1.5

# Mechanical

Solar Cell	Monocrystalline 156 x 156 mm ( 6 inches )
No. of Cells	60 ( 6 x 10 )
Dimensions	1640 x 992 x40 mm (65.0 x 39.0 x 1.57 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 mm <sup>2</sup> ( 0.006 inches <sup>2</sup> ), 1200mm ( 47.2 inches )
Connectors	MC4 compatible connectors
Fire Rating	Class C
ETL listed to UL 1703 standard	

# Diagram



# 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

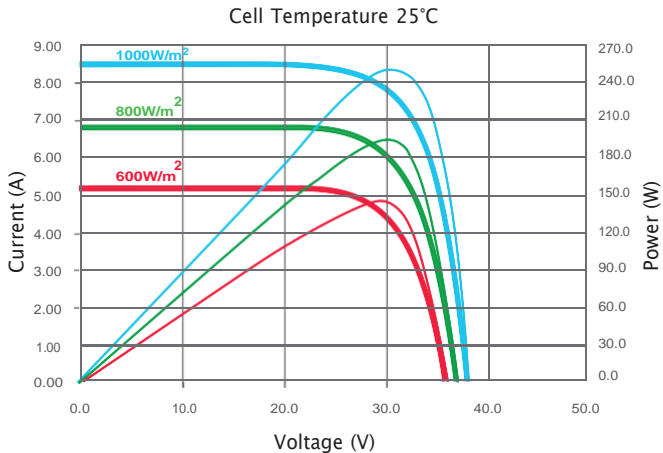
# Maximum Ratings

Operating Module Temperature	-40°C to +90°C
Maximum System Voltage	Certified for 600V or 1000V
Maximum Series Fuse Rating	15 A

# Packaging

Per Pallet	26 pcs ( 20' CTN )/29 pcs ( 40' CTN )
Per Container	342 pcs ( 20' CTN )/812 pcs ( 40' CTN )

# I-V Curves



Current, Power vs. Voltage Characteristics of ASW-245M  
Current vs. Voltage  
Power vs. Voltage