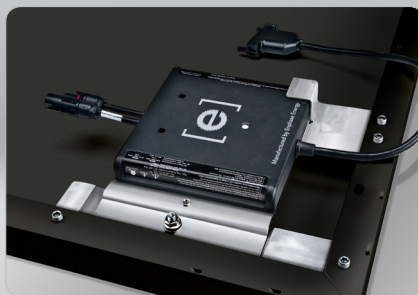


ABOUT PHONO SOLAR

Phono Solar Technology Co., Ltd. is one of the world's leading renewable energy product manufacturers and trusted provider. The Phono Solar brand has become synonymous with high performing, top quality photovoltaic panels that are ideal for use in large scale power plants, commercial and residential installations.

Enphase Microinverter

The integrated Enphase Microinverter, instantly converts DC to ready to use AC power. The intelligent microinverter sends vital health and performance information to the Enphase Envoy communications gateway.



ONYX Series

Attractive black frame with black backsheet.



HIGH PERFORMANCE AC SOLAR MODULE

AC Series 250W

AC ADVANTAGE

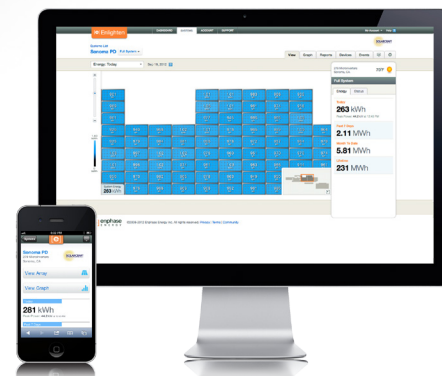
- High efficiency solar module integrated with an Enphase microinverter, the world's most efficient AC system solution
- Optimized for higher output in low light conditions
- Individually optimized module
- Eliminates module mismatch loss
- Shading affects only the shaded panel, not the entire system

SAFETY

- No high voltage DC wiring
- Fire Prevention—No risk of DC arc faults
- ETL Certified AC Model—No separate grounding electrode conductor (GEC) required

INTELLIGENT

- Performance monitoring and system management
- Maximized system up-time with remote diagnosis and resolution
- Quick and simple design, installation and management
- Provides solar system performance information, analytics and automated alerts
- The microinverter bracket is engineered for a safer more secure connection to the module



RELIABILITY

- 25-year panel and microinverter performance warranty*
- 10-year workmanship warranty*
- Free module recycling through PV Cycle Association membership**

AC MODULE COMPLIANCE



*In compliance with warranty terms and conditions.

**In PV Cycle member countries only, see www.pvcycle.com for details.

Model: PS250P-AC

Attractive black frame with black backsheet ONYX Series.

MECHANICAL CHARACTERISTICS

| | |
|--------------|---|
| Solar Cells | Polycrystalline 156mm x 156mm square, 6 x 10 pieces in series |
| Dimension | Length: 1640mm (64.57 inch) |
| | Width: 992mm (39.06 inch) |
| | Height: 75mm (2.95 inch) |
| Weight | 21.6kg (47.6lbs) |
| Front Glass | 3.2mm toughened glass |
| Frame | Anodized aluminium alloy |
| Cable | 0.90m wire (ø 4mm ²) |
| Diodes | 6 pieces Schottky by-pass diodes |
| Junction Box | IP 65 rated |

AC ELECTRICAL TYPICAL VALUES

| Output Data (AC) | @208 Vac | @240 Vac |
|--------------------------------------|---|------------------------------------|
| Maximum output power | 215W | 215W |
| Nominal output current | 1.0A (arms at nominal duration) | 0.9A (arms at nominal duration) |
| Nominal voltage/range | 208V/183-229V | 240V/211-264V |
| Extended voltage/range | 208V/179-232V | 240V/206-269V |
| Nominal frequency/range | 60.0/59.3-60.5 Hz | 60.0/59.3-60.5 Hz |
| Extended frequency range | 60.0/59.2-60.6 Hz | 60.0/59.2-60.6 Hz |
| Power Factor | >0.95 | >0.95 |
| Maximum units per 20A branch circuit | 25 (three phase) | 17 (single phase) |
| Maximum output fault current | 1.05 Arms, over 3 cycles; 25.2 Apeak, 1.74ms duration | |
| Ambient temperature range | -40°C to + 65°C | |

TEMPERATURE CHARACTERISTICS (DC MODULE)

| | |
|---|------------|
| NOCT (Nominal Operation Cell Temperature) | 45°C ± 2°C |
| Voltage Temperature Coefficient | -0.31%/K |
| Current Temperature Coefficient | +0.07%/K |
| Power Temperature Coefficient | -0.40%/K |

WEAK LIGHT PERFORMANCE (DC MODULE)

| Intensity [W/m ²] | I _{mpp} | V _{mpp} |
|-------------------------------|------------------|------------------|
| 1000 | 1 | 1 |
| 800 | 0.8 | 0.996 |
| 600 | 0.6 | 0.99 |
| 400 | 0.4 | 0.983 |
| 200 | 0.2 | 0.952 |
| 100 | 0.1 | 0.921 |

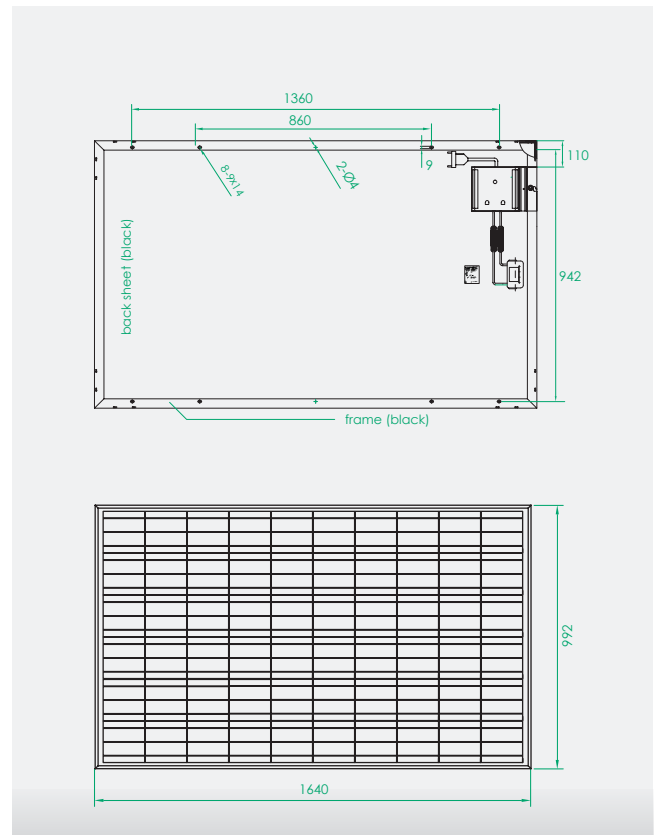
Note: This publication summarizes product warranty and specifications, which are subjected to change without notice. Additional information can be found on www.phonosolar.com

1. Defined as standard deviation of thousands measurements. Absolute power values depend on the measuring system. They can differ by +/-5% from one measuring system to another.
2. Measurement conditions under irradiance level of Standard Test Conditions (STC): 1000W/m², Air mass 1.5 Spectrum, cell temperature of 25°C.

ABSOLUTE MAXIMUM RATING

| Parameter | Values |
|-----------------------------------|-------------------|
| Operating Temperature | From -40 to +85°C |
| Hail Diameter @ 80km/h | Up to 25mm |
| Surface Maximum Load Capacity | Up to 5400Pa |
| Maximum Series Fuse Rating | 15A |
| IEC Application Class (IEC 61215) | A |
| Fire Rating (UL 1703) | C |

DIMENSIONS



PARTNER INFORMATION

