

ABOUT PHONO SOLAR

Phono Solar Technology Co., Ltd. is one of the world's leading renewable energy product manufacturers and a well-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 Enphase Microinverter is a compact unit that connects directly to Phono Solar PV modules, converting DC to AC power at source. The microinverter also sends vital health and performance information to the Enphase Envoy communications gateway.



HIGH PERFORMANCE AC SOLAR MODULE

AC Series 240-250

PRODUCTIVE

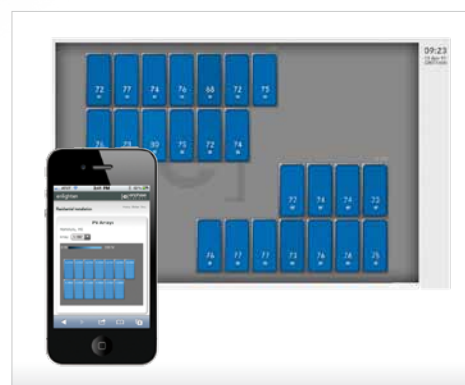
- High efficiency solar module integrated with an Enphase microinverter, the world's most efficient microinverter
- High output due to excellent performance in weak-light conditions
- Each module is individually optimized
- Eliminates module mismatch loss
- Shading affects only the shaded panel, not the entire system
- Peak efficiency 96.3%, CEC efficiency 96%, Euro efficiency 95.4%

INTELLIGENT

- Performance monitoring on every module
- Issues with the array are automatically identified, diagnosed and resolved by remote trouble shooting
- Quick and simple design, installation and management
- Provides solar system performance information, analytics and automated alerts

SAFE

- No high voltage DC wiring
- Fire Prevention – no risk of DC arc faults



CEC



MICRO INVERTER COMPLIANCE

VDE-0126-1-1, DK5940, C10/11, EN62109-2, G83/1-1

MECHANICAL CHARACTERISTICS

Solar Cells	Polycrystalline 156mm \times 156mm square, 6 \times 10 pieces in series
Dimension	Length: 1640mm
	Width: 992mm
	Height: 45mm
Weight	21.6kg
Front Glass	3.2mm toughened glass
Frame	Anodized aluminium alloy
Diodes	0.90m wire (\varnothing 4mm ²)
Junction Box	6 pieces Schottky by-pass diodes
Junction Box	IP 65 rated

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

ELECTRICAL TYPICAL VALUES^{1,2}

Model	Rated Power (P _{mpp})	Tolerance	Rated Current (I _{mpp})	Rated Voltage (V _{mpp})	Short Circuit Current (I _{sc})	Open Circuit Voltage (V _{oc})	Module Efficiency (%)
PS240P-20/U	240w	0~+5w	8.06A	29.8V	8.50A	37.5V	14.75
PS245P-20/U	245w	0~+5w	8.18A	30.0V	8.60A	37.7V	15.06
PS250P-20/U	250w	0~+5w	8.30A	30.2V	8.70A	37.8V	15.37

AC Electrical Specification

Maximum AC output power (-40 to 65°C)	215W
Nominal output current	0.93A
Nominal voltage	230V
Nominal frequency	50.0Hz
Power Factor	>0.95
Maximum units per 20A branch circuit	17 (Ph + N); 27 (3Ph + N)
Maximum output fault current	1.05 Arms, over 3 cycles; 25.2 Apeak, 1.74ms duration
EN 50530 (EU) efficiency	95.40%
Static MPPT efficiency (weighted, reference EN50530)	99.60%
Communication	Power line
Night time power consumption	50mW
Operating temperature range (internal)	-40°C to + 85°C
Cooling	Natural convection - No fans
Enclosure environmental rating	Outdoor - IP67

WEAK LIGHT PERFORMANCE

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

WARRANTY

MODULE-25 YEARS
INVERTER-25 YEARS

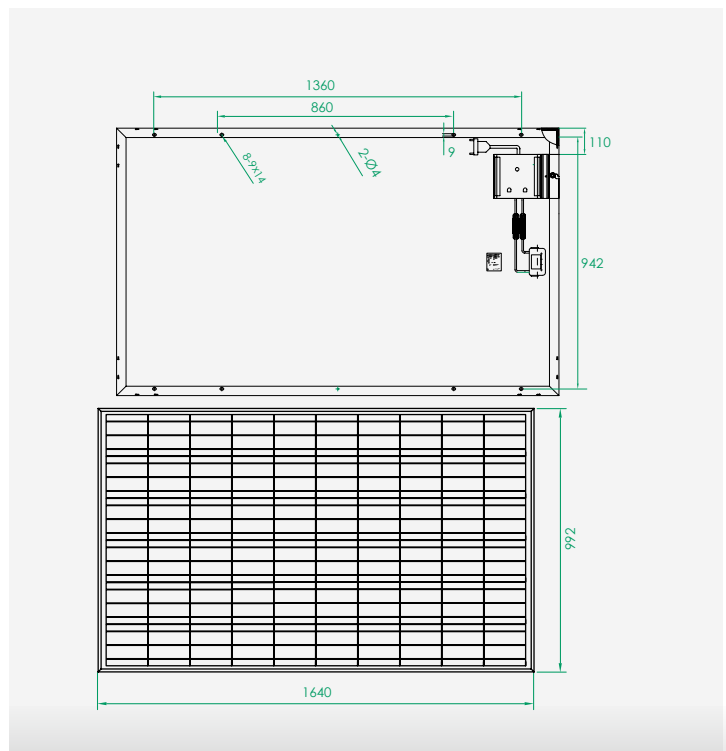
Note: This publication summarizes product warranty and specifications, which are subjected to change without notice. Additional information can be found on website: www.phonosolar.com

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.

www.phonosolar.com

DIMENSIONS



PARTNER INFORMATION

