

# AC Unison PM240PA0









AUO AC Unison is a new breakthrough in solar photovoltaic (PV) technology. AUO combines its premium PV module with reliable microinverter technology to maximize PV benefits for installers and end users.

The integrated microinverter converts module DC to grid compliant AC at each module. This increases system performance by up to 25%, reduces shading losses, and makes PV safer to install and own. AUO AC Unison is installed, monitored, and maintained with ease.

All AUO PV products are manufactured under AUO's strict quality control standards. AUO AC Unison is designed for 25 years of efficient production.

## Features

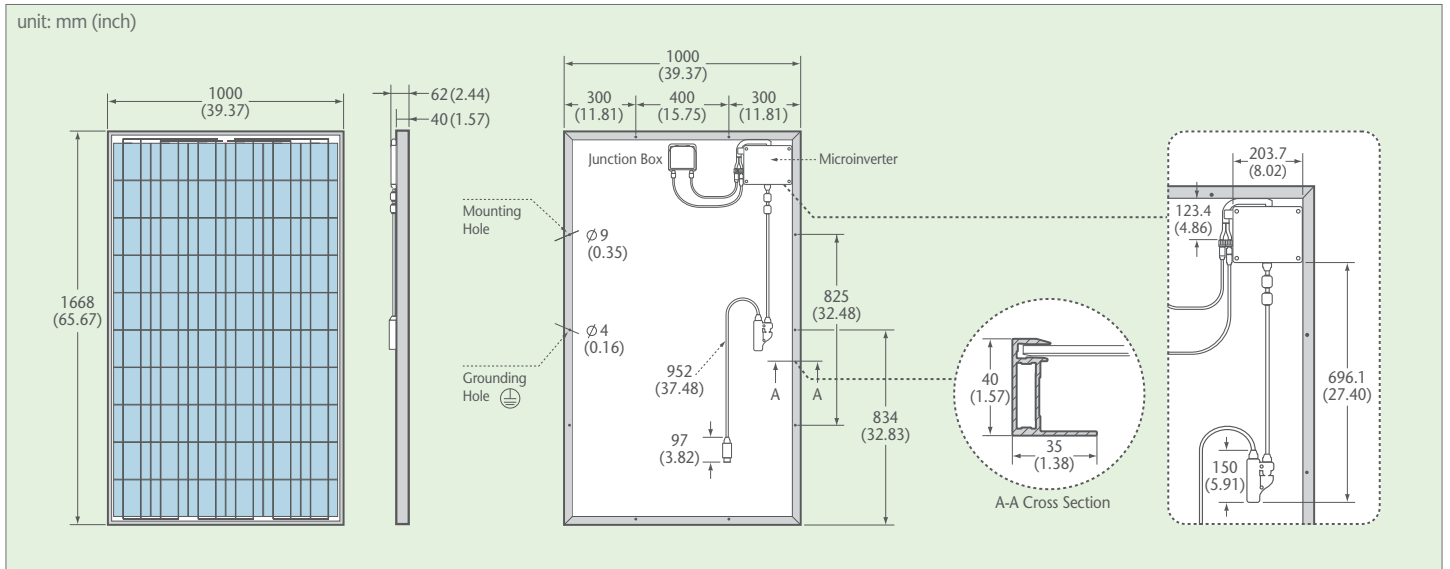
High and Stable Energy Output		
 Harvest 5 to 25% more energy than traditional systems	 Module level monitoring	 Designed for 25-year reliability
Economic	Safe	
 Modular flexibility suits any budget or rooftop	 Simplified PV system reduces installation costs	 No high voltage DC means safe installation and ownership



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in **green** power



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## AC Electrical Data

Maximum Continuous Power Output	225 W
Nominal Voltage	240 V
Nominal Frequency	60 Hz
Nominal Output Current	0.9375 A
Nominal Operating Voltage Range	211 ~ 264 V
Nominal Operating Frequency	59.3 ~ 60.5 Hz
Total Harmonic Distortion	< 5%
Maximum Units per 20A Branch	17 pcs
CEC Weighted Efficiency	94.50%
Peak Inverter Efficiency	95.50%

## DC Temperature Coefficient

NOCT	46 ± 2 °C
Typ. Temperature Coefficient of $P_N$	-0.44%/K
Typ. Temperature Coefficient of $V_{oc}$	-0.32%/K
Typ. Temperature Coefficient of $I_{sc}$	0.04%/K

• NOCT: Normal Operation Cell Temperature, measuring conditions: irradiance 800 W/m<sup>2</sup>, AM 1.5, air temperature 20 °C, wind speed 1 m/s

## DC Electrical Data

Nominal Power Output	235 W, 240 W
Power Tolerance	0 / +3%

## Operating Conditions

PV Module Operating Temperature	-40 ~ +85 °C
Microinverter Ambient Temperature	-40 ~ +65 °C
IP Protection Level	IP65
Maximum Surface Load Capacity	Tested up to 5400 Pa according to IEC 61215 (advanced test)

## Mechanical Characteristics

Dimensions (L x W x H)	Overall module: 1668 x 1000 x 40 mm (65.67 x 39.37 x 1.57 in) Height at Inverter location: 62 mm (2.44 in)
Weight	22.7 kg (50 lbs)
Front Glass	High transparent solar glass (tempered), 3.2 mm (0.13 in)
Cell	60 multicrystalline solar cells 156 x 156 mm (6 x 6 in)
Cell Encapsulation	EVA
Back Sheet	Composite film, white
Frame	Anodized aluminum frame, silver
AC Cable Length	Output cable: 696.1 mm (27.40 in) Extension cable: 1049 mm (41.30 in)
Module to Module AC Wiring	Fully-guarded, locking AC-connector
Ground Wiring	UL approved, equipment ground for module and inverter carried through internal inverter wiring - no external ground wires required

## Warranties and Certifications

Product Warranty	10-year material and workmanship
Performance Guarantee	Guaranteed output of 90% for 10 years and 80% for 25 years
PV Module Certifications	IEC 61215, IEC 61730, UL 1703 CEC listing (model: AUO PM240P00_□□□)
Microinverter Certifications	UL 1741 CEC listing (model: Solarbridge P235LV_240)
AC Module Certification	UL 1741



**AU Optronics Corporation**

1525 McCarthy Blvd. Suite 218, Milpitas, CA 95035, USA

Tel: +1-408-518-8800 Email: solar@auo.com www.AUO.com www.AUOsolar.com

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