AC Unison PM245PA2

AC Electrical Data

Maximum Continuous Power Output	250 W
Nominal Voltage	230 V
Nominal Frequency	50 Hz
Maximum Output Current	1.3 A
Nominal Operating Voltage Range*1	180V - 264 V
Nominal Operating Frequency*2	47Hz - 53 Hz
Total Harmonic Distortion	< 5%
Maximum Units per 15 A Branch	12 pcs
European Weighted Efficiency	95.40%
Peak Inverter Efficiency	96.50%

Temperature Coefficient

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

• NOCT: Normal Operation Cell Temperature, measuring conditions: irradiance 800 W/m², AM 1.5, air temperature 20 °C, wind speed 1 m/s

DC Electrical Data

Nominal Power Output	250 W
Power Tolerance	0 / +3%

Mechanical Characteristics

Dimensions (L x W x H)	Overall module: 1639 x 983 x 40 mm (64.53 x 38.70 x 1.57 in) Height at Inverter location: 67 mm (2.63 in)
Weight	20.2kg (44.44 lbs)
Front Glass	High transparent solar glass (tempered), 3.2 mm (0.13 in)
Cell	60 monocrystalline solar cells, 156 mm x 156 mm (6 x 6 in)
Cell Encapsulation	EVA
Back Sheet	Composite film, White
Frame	Anodized aluminum frame, Black
Module to Module AC Wiring	Fully-guarded, locking AC-connector
Ground Wiring / Schletter Ground Kit	IEC 61730-2: Photovoltaic (PV) module safety qualification

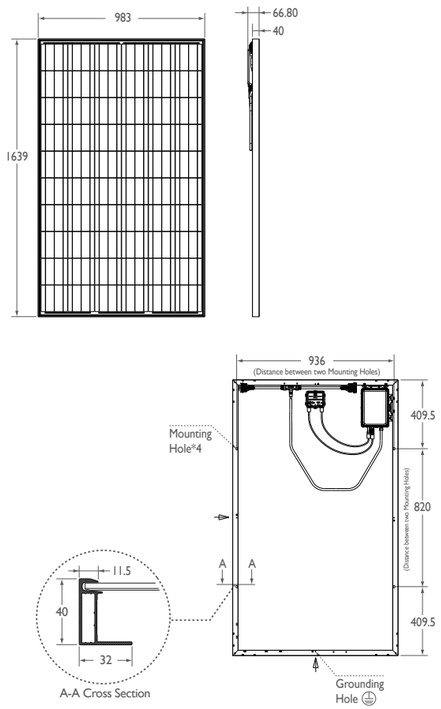
Operating Conditions

PV Module Operating Temperature	-40 ~ +85 °C
Microinverter Ambient Temperature	-40 ~ +75 °C
IP Protection Level	IP65
Maximum Surface Load Capacity	Tested up to 5400 Pa according to IEC 61215 (advanced test)

Warranties and Certifications

Product Warranty	10 years for material and workmanship*4
Performance Guarantee	Guaranteed output of 90% for 10 years and 80% for 25 years
PV Module Certifications	IEC/EN 61215 ed.2 / IEC/EN 61730-1, -2 / UL 1703
Microinverter Certifications	EN 62311/ EN 62109-1, -2 / EN 50178 / EN 301489-1 V1.8.1 / EN 301489-17 V2.1.1 / EN 61000-6-1, -2, -3+A1 / EN 61000-3-2+A1+A2, EN 61000-3-3 / EN 300 328 V1.7.1
Grid Standard Compliance*3	Enel Guideline (CEI 0-21 + Attachment A70 Terna, Plant Power ≤ 3kW), VDE 0126-1-1, VDE-AR-N 4105 (Plant Power ≤ 3.68 kVA), G83/1, RD1663, AS 4777

Dimensions mm (inch)



*1. The AC voltage range may vary depending on specific country grid standard

*2. The Frequency range may vary depending on specific country grid standard

*3. The Micro inverter is tested according to the grid standard criteria. (Some certification yet obtained)

*4. All specifications are subject to change without notice. Please check with your supplier for exact offers.

Products may not be available in all markets. Please check BenQ Solar Official Website

Dealer Stamp

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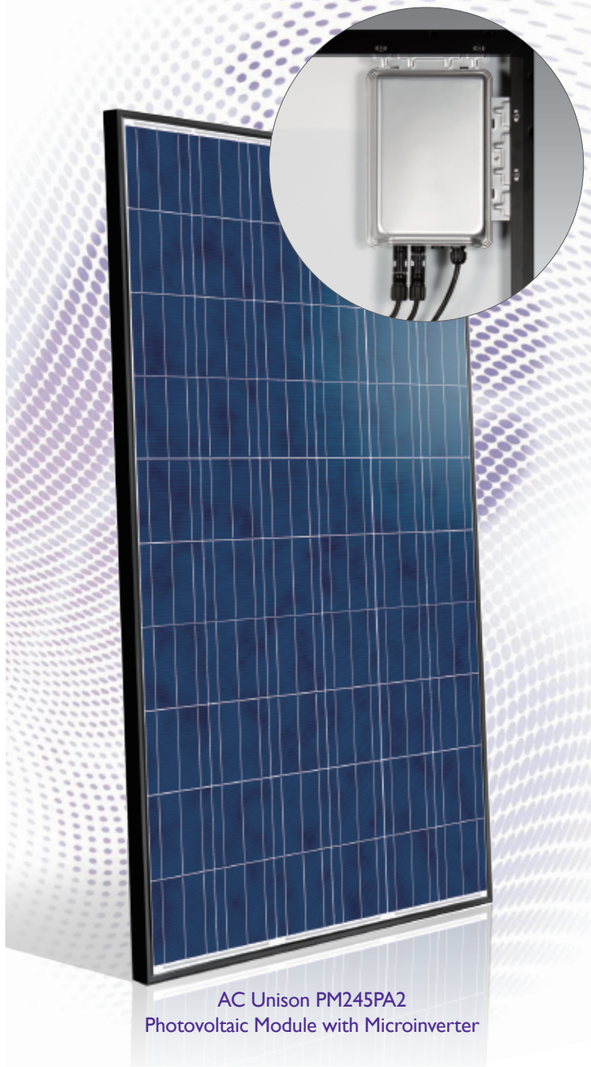
BenQ Solar

AC Unison

The Highly Integrated AC Module Solution



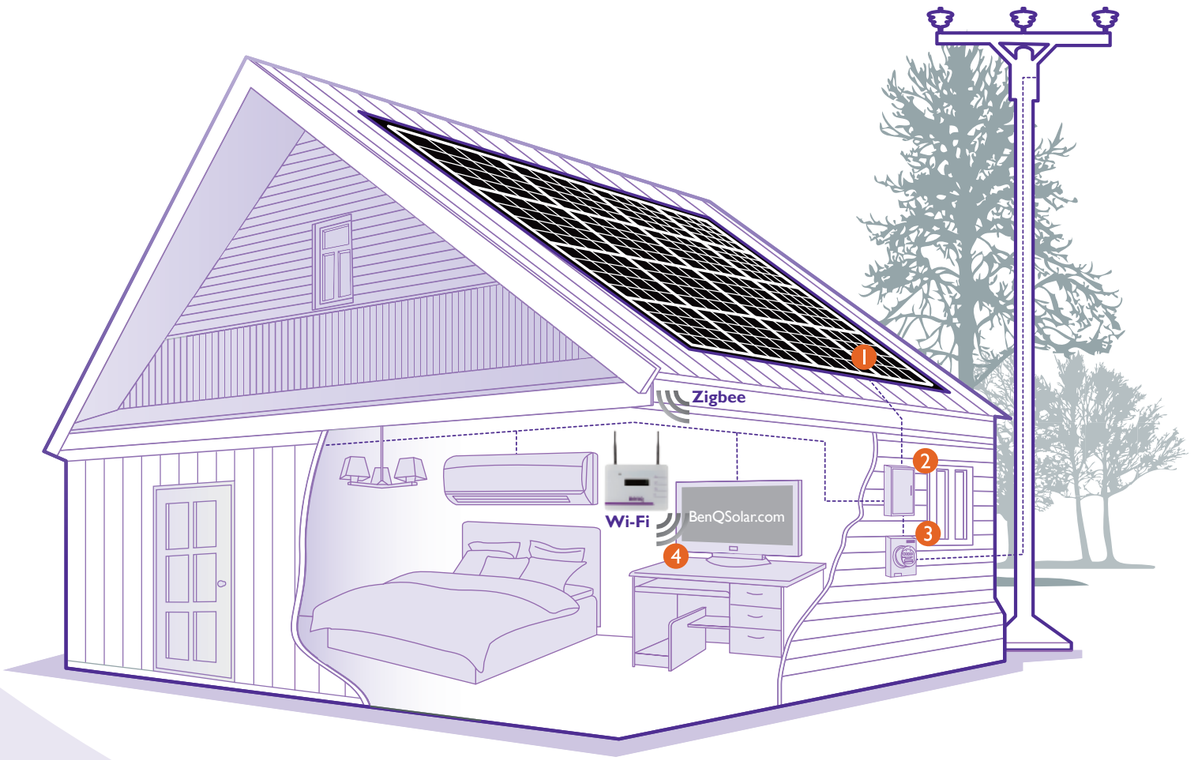
AC Unison PM245PA2
Photovoltaic Module with Microinverter

- High and Stable Energy Output
- Increased Safety
- Smart Monitoring System
- Quick Installation and Easy Maintenance
- Save Up to 60% Cabling Cost
- Industry-Leading Cable Management
- Modular Flexibility

Monitoring System

BenQ Solar

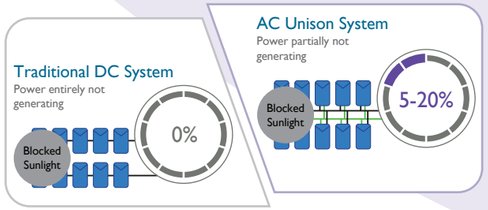
How BenQ Solar AC Unison Works



High and Stable Energy Output

+20%

Our AC Unison system enhances the system power generation for more than 5% ~ 20% improvements when comparing with traditional DC system under partially shaded condition. The individual MPPT (Maximum Power Point Tracking) technology maximizes the system performance without additional cost.



Increased Safety

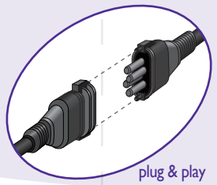
SAFE

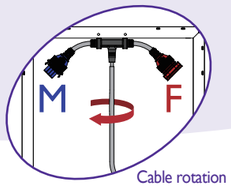
Our AC Unison system parallel connection design ensures low voltage generation on each PV module. Moreover, the Anti-islanding protection turns off the power production of modules when grid is down.

Quick Installation and Easy Maintenace

EASY

Our AC Unison system uses the "plug & play" unique AC embedded trunk cable design to reduce the installation time. Its 180 degree rotation method can also fit all directions with multiple array installations.





Solar Power System with AC Module

1 AC Module

Solar panels convert sunlight directly into AC electricity that is ready for use in your home or business.

2 Electric Panel Box

The clean electricity from the solar array connects to the building's electrical system at a dedicated circuit breaker.

3 Utility Meter

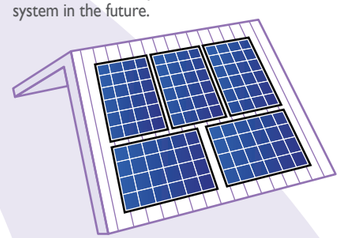
When solar electricity production is greater than the building's demand, the meter will run backwards.

4 Data Logger & Monitoring Web Portal

The Data Logger allows you to track energy production and system performance through the BenQ Solar Web Portal.

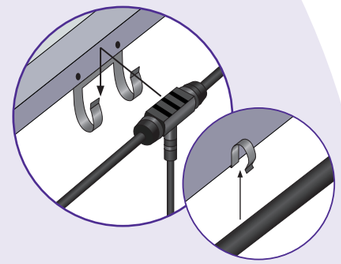
Modular Flexibility

AC Unison offers more installation flexibility in system sizes and locations. You can start with a small system that is affordable to you then add more modules to the system in the future.



Industry-Leading Cable Management

Our AC Unison system offers the industry leading cable management solution to prevent all the cabling from hanging on the rooftop. Also can help owner to manage the cable layout for future maintenance.



Smart Monitoring System

The BenQ Solar Monitoring System provides the system owner with full access to comprehensive power information with graphical charts and historical data. It also offers the advanced features of PV-doctor diagnostic tool and System-alarm notification. You can check your AC Unison system information anytime, anywhere through the BenQ Solar Mobile APP on your smart phone.

Save Up to 60% Cabling Cost

60% $

The AC embedded trunk cable design of our AC Unison System can reduce up to 60% cabling usage cost compared with the traditional DC trunk cable design.