AC Unison PM245PA2

AC Electrical Data

Maximum Continuous Power Output	250 VV
Nominal Voltage	230 V
Nominal Frequency	50 Hz
Maximum Output Current	I.3 A
Nominal Operating Voltage Range*I	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

NOCI	46 ± 2 °C
Typ. Temperature Coefficient of $P_{\mbox{\scriptsize N}}$	-0.44% / K
Typ.Temperature Coefficient of Voc	-0.32% / K
Typ.Temperature Coefficient of Isc	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

Overall module: $1639 \times 983 \times 40 \text{ mm}$ ($64.53 \times 38.70 \times 1.57 \text{ in}$) Dimensions $(L \times W \times H)$ Height at Inverter location: 67 mm (2.63 in) Weight 20.2kg (44.44 lbs)

High transparent solar glass (tempered), 3.2 mm (0.13 in) Front Glass Cell 60 multi crystalline solar cells, 156 mm x 156 mm (6 x 6 in)

Cell Encapsulation

Back Sheet Composite film, White Anodized aluminum frame, Black Frame

Module to Module AC Wiring Fully-guarded, locking AC-connector

Ground Wiring / IEC 61730-2: Photovoltaic (PV) module safety qualification Schletter Ground Kit

Operating Conditions

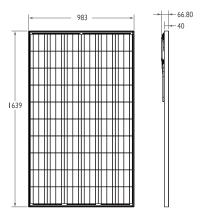
PV Module Operating Temperature -40 ~ +85 °C Microinverter Ambient Temperature -40 ~ +75 °C IP Protection Level

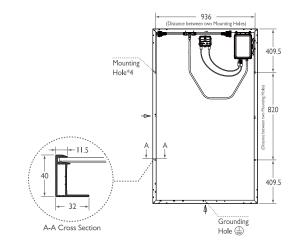
Maximum Surface Load Capacity Tested up to 5400 Pa according to IEC 61215 (advanced test)

Warranties and Certifications

vvairances and Cerunications		
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 6231 I / 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), VDF 0126-1-1, VDF-AR-N 4105 (Plant Power ≤ 3.68 kVA).	

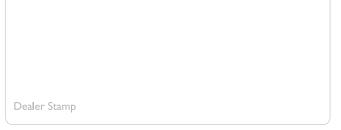
Dimensions mm (inch)





- *I. 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



AC Unison

The Highly Integrated AC Module Solution









High and Stable Energy

Safety

Smart Monitoring System

Output

Quick Installation and Easy Maintenance



Save Up to 60% Cabling Cost





Management



Modular Flexibility



Monitoring System



AU Optronics Corporation

G83/I, RD I663, AS 4777

No. I, Li-Hsin Rd. 2, Hsinchu Science Park, Hsinchu 30078, Taiwan Tel: +886-3-500-8899 E-mail: BenQSolar@auo.com www.BenQSolar.com

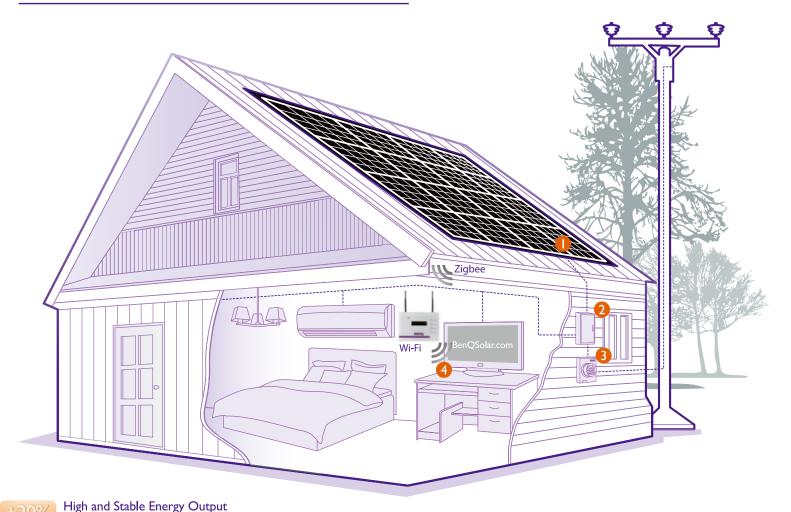








How BenQ Solar AC Unison Works



Solar Power System with AC Module

AC Module

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

Electric Panel Box

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

Outility Meter

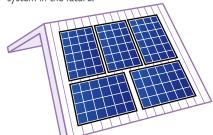
When solar electricity production is greater than the building's demand, the meter will run backwards. (Results may vary depending on meter types and local encourage program.)

4 Data Logger (CDD) & Monitoring System

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

Modular Flexibility

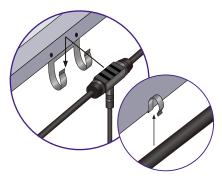
AC Unison offers more installation flexibility in system sizes and locations. You can start with a small system that is affordable to you then add more modules to the system in the future.





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





Save Up to 60% Cabling Cost

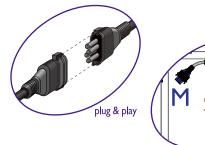
The AC embedded trunk cable design of our AC Unison System can reduce up to 60% cabling usage cost compared with the traditional DC trunk cable design.

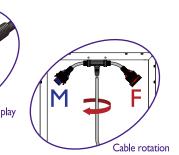
Save up to 60% on cabling cost



Quick Installation and Easy Maintenace

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.





AC Unison System Traditional DC System

performance without additional cost.

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

Increased Safety 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.

DC

~1000V

AC

~230V/240V

