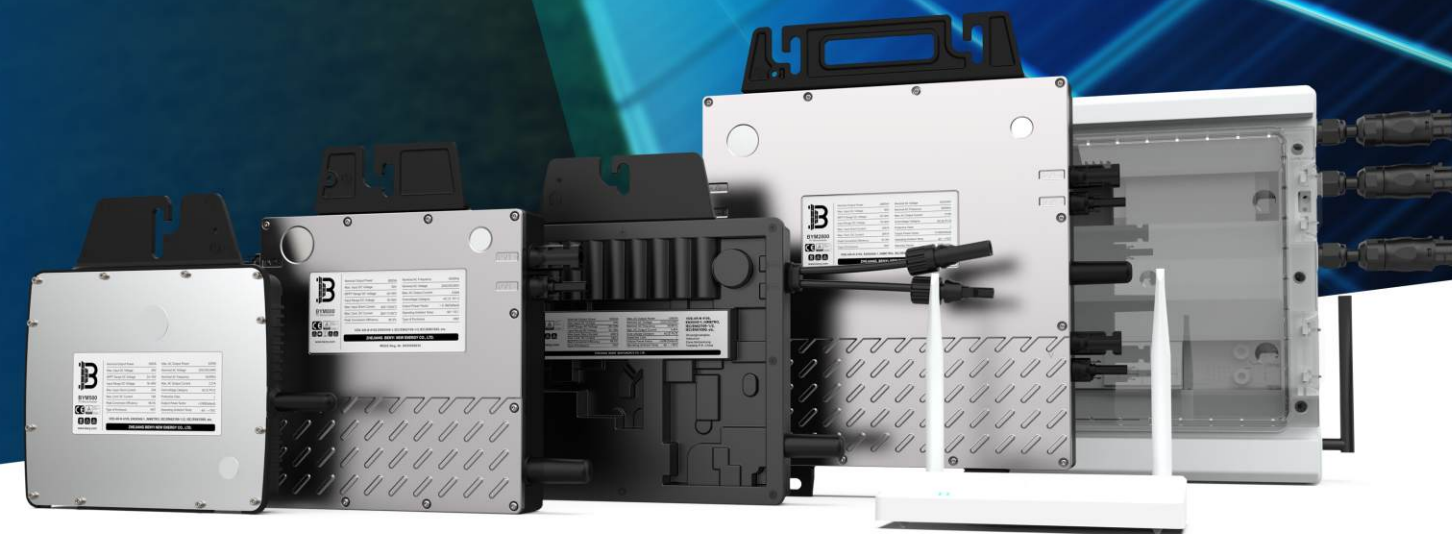




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# BENY Microinverter



## ZHEJIANG BENYI NEW ENERGY CO.,LTD.

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⚠️ If the models and specifications in this product catalogue change due to product updates, we will not provide prior notification.



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## Catalogue

**ZBENY**



## Company Introduction

As a national high-tech enterprise, BENY New Energy is concentrating on developing renewable energy for a sustainable future.

We are a leading brand annually producing hundreds of thousands of quality DC protection products and EV charging stations for complete and reliable solar photovoltaic, battery energy storage, and EV charging system.

Offering solar PV switchgear and solar combiner solutions 1000V 1500V. Newly launch solar panel RSD, solar fire safety switches for higher safety level, microinverter for solar buildings for higher efficiency.

The newest EV charging and energy storage solutions are compatible with solar PV power which is reliable for residential and commercial applications.



**100+**

R&D Engineer



**100+**

Possess an invention patent



**Certification**

Has been granted by several countries



**40+**

National and regional customer recognition

**We are Working  
on a Sustainable  
Future.**



**30<sup>+</sup>**  
Years of  
Experience

**20<sup>+</sup>**  
Million Annual  
Production  
Capacity



## Microinverter Combination



### SAFETY

Low DC voltage  
invisible



### QUALITY

Components selected  
from world-class brands



### OPTIMIZATION

High efficiency for  
each module



### PARALLEL INPUT

Industry's largest  
continuous input current



### FLEXIBILITY

Adapts to any system size  
and optimizes space



### PLUG & PLAY

AC BUS design no  
single point of failure



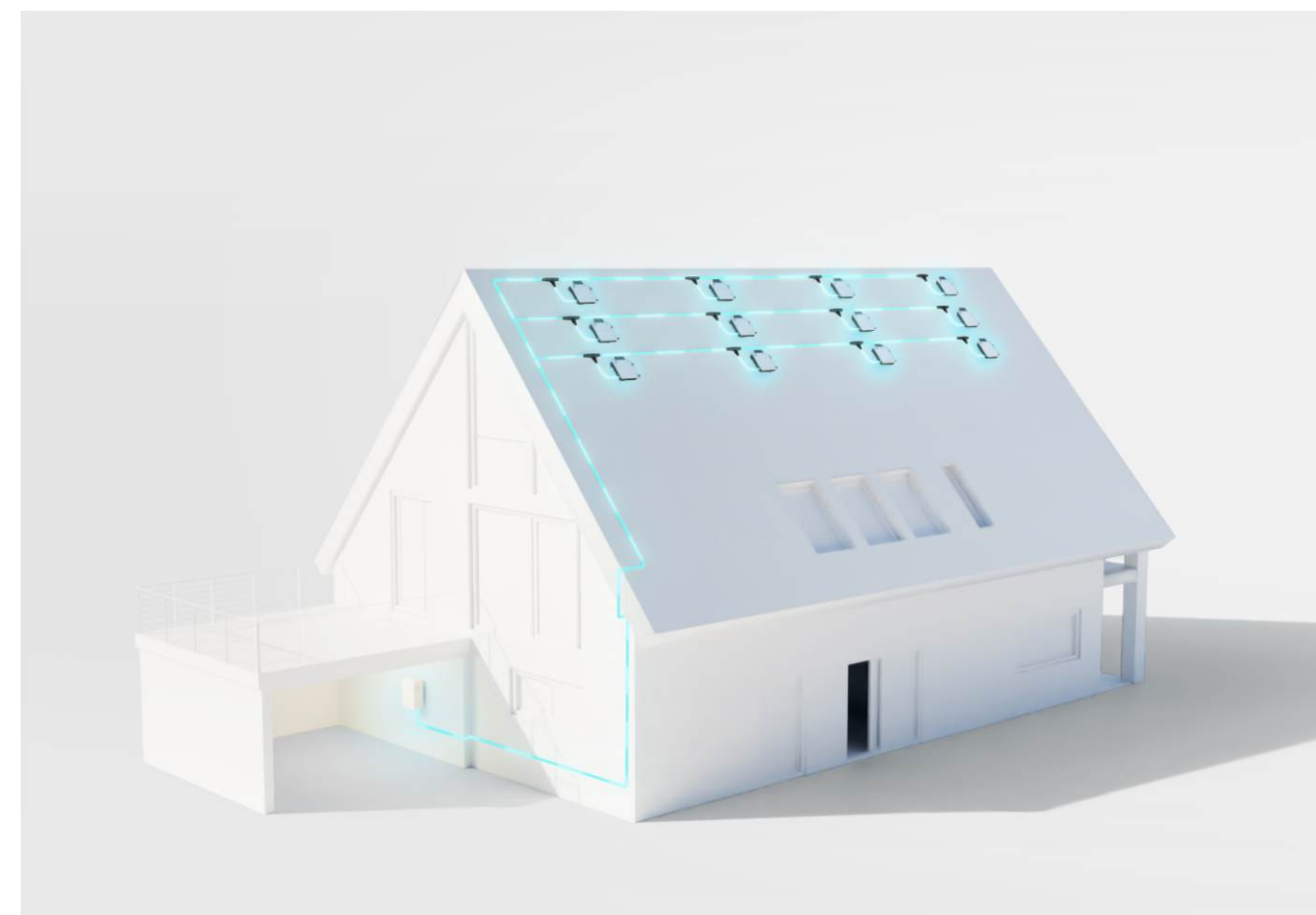
### 25 YEARS

30-year design life  
up to 25-year warranty



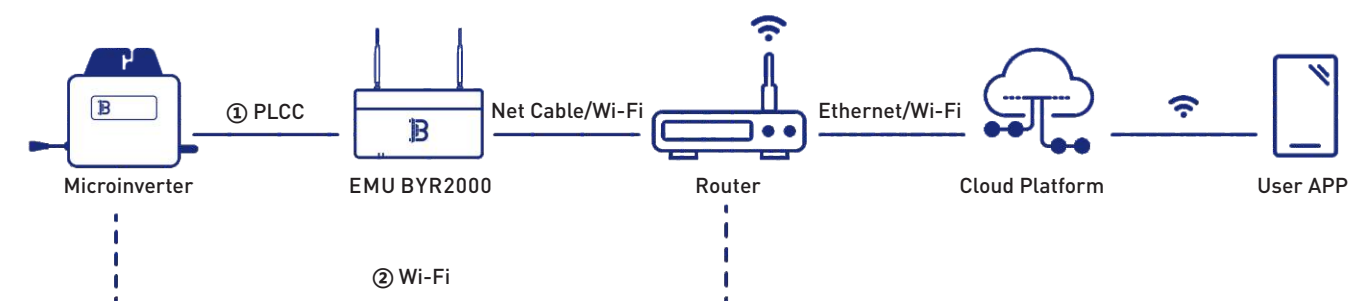
### SMART

Module-level online smart  
monitoring



## Monitoring solution

Communication with BENY microinverters through PLCC/Wi-Fi enables users to manage the systems in a smart digital way.





## BYM2000



Adapted to 60~75-cell or 120~150 half-cell PV modules



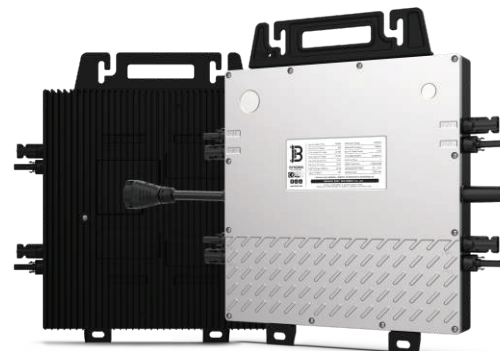
Static MPPT efficiency 99.80%



High reliability, IP67 (NEMA 6) enclosure

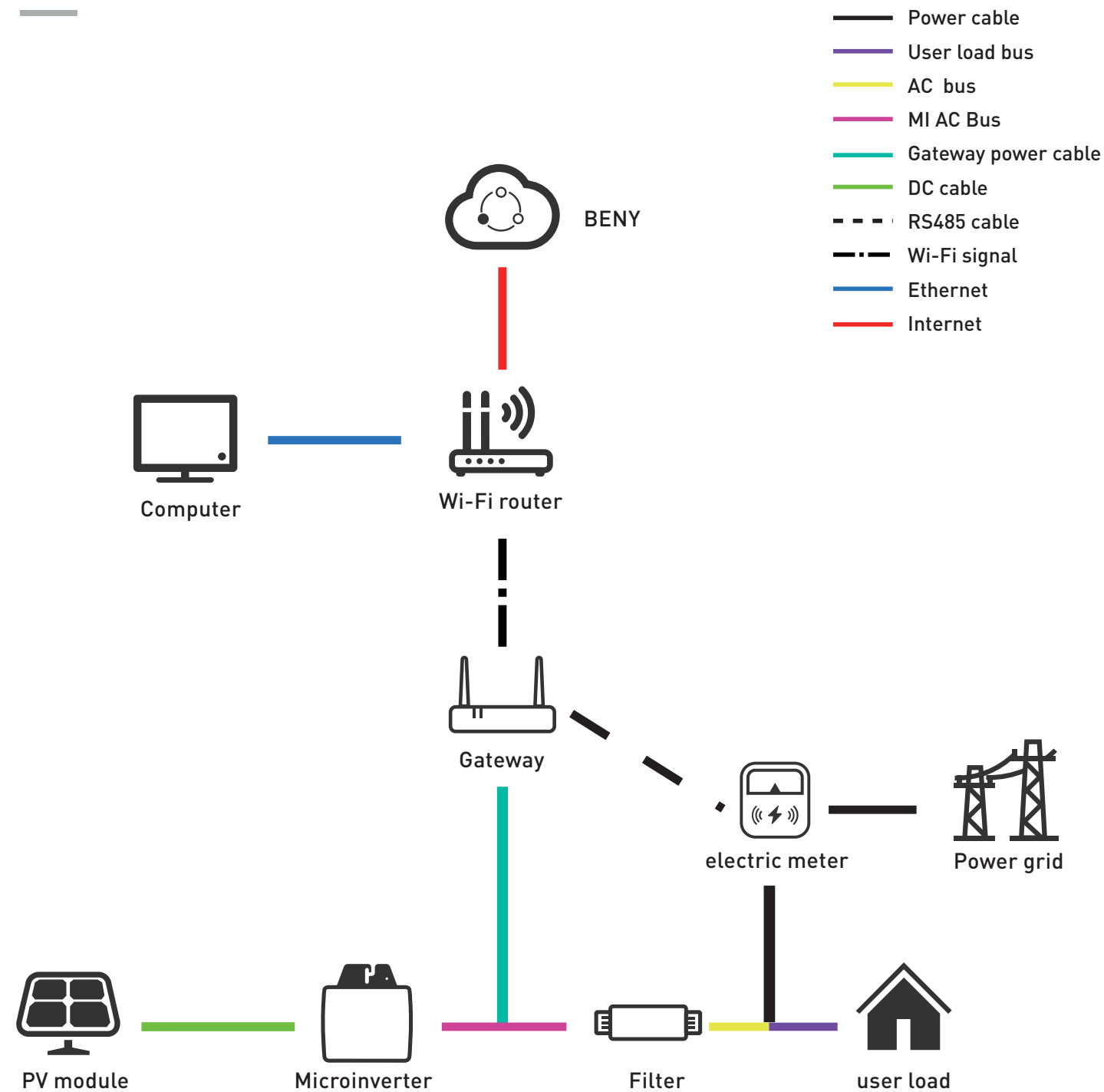
## Description

With the maximum output power of 2000VA/2400VA/2800VA, microinverters connect to 4 modules and enable module-level maintenance and management of the PV station by monitoring power generation of each module. Module-level data can be uploaded to the monitoring platform via BENY data transfer units through PLCC/Wi-Fi.



| Input Data (DC)                                                                    |                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                                                              | BYM2000                                                                                                                                                                                                     |
| Recommended input power (STC)                                                      | [450~750] W*4 , 60~75-cell/120~150 half-cell<br>[350~550] W*8 , 66~75-cell/132~150 half-cell                                                                                                                |
| MPPT voltage range                                                                 | 24V~50V                                                                                                                                                                                                     |
| Operating voltage range                                                            | 16V~60V                                                                                                                                                                                                     |
| Maximum input voltage                                                              | 60V                                                                                                                                                                                                         |
| Max. short circuit current                                                         | 20A*4                                                                                                                                                                                                       |
| Max. input current                                                                 | 18A*4                                                                                                                                                                                                       |
| Output Data (AC)                                                                   |                                                                                                                                                                                                             |
| Rated output power                                                                 | 2000VA                                                                                                                                                                                                      |
| Rated voltage (range)                                                              | 230V (176V~265V)                                                                                                                                                                                            |
| Rated frequency (range)                                                            | 50Hz/60Hz (46.5Hz~62Hz)                                                                                                                                                                                     |
| Maximum continuous output current                                                  | 9.10A                                                                                                                                                                                                       |
| Maximum harmonic distortion                                                        | <4%                                                                                                                                                                                                         |
| Power factor                                                                       | >0.99 (Default)                                                                                                                                                                                             |
| Maximum connection number in one string (PLCC) (30A circuit breaker, 10AWG cable)  | 3 units                                                                                                                                                                                                     |
| Maximum connection number in one string (Wi-Fi) (40A circuit breaker, 10AWG cable) | 4 units                                                                                                                                                                                                     |
| Efficiency                                                                         |                                                                                                                                                                                                             |
| Peak efficiency                                                                    | 97.5%                                                                                                                                                                                                       |
| MPPT efficiency                                                                    | >99.8%                                                                                                                                                                                                      |
| Night power consumption                                                            | <100mW                                                                                                                                                                                                      |
| Other Parameters                                                                   |                                                                                                                                                                                                             |
| Communication method                                                               | PLCC/Wi-Fi (Optional)                                                                                                                                                                                       |
| Safety protection                                                                  | Class I                                                                                                                                                                                                     |
| Enclosure rating                                                                   | IP67                                                                                                                                                                                                        |
| Operating temperature                                                              | -40°C to +70°C                                                                                                                                                                                              |
| Storage temperature                                                                | -40°C to +85°C                                                                                                                                                                                              |
| Relative humidity                                                                  | 0~98%                                                                                                                                                                                                       |
| Transformer design                                                                 | High frequency transformer, Electrical isolated                                                                                                                                                             |
| Overvoltage class                                                                  | OVC III (AC), OVC II (PV)                                                                                                                                                                                   |
| Warranty period                                                                    | 12 / 25 years (Optional)                                                                                                                                                                                    |
| Dimensions (L*W*H mm)                                                              | 389*302*43                                                                                                                                                                                                  |
| Weight (kg)                                                                        | 7.45                                                                                                                                                                                                        |
| Safety regulations                                                                 | IEC/EN 61000-6, CISPR11+A1+A2, IEC/EN 62109-1/2, EN 505491:2019 VDE-AR-N 4105:2018/DIN VDE 0124:2020, AS 4777.2 :2020, INMETRO, UTE C15-712-1/DIN VDE 0126/VFR 2019, G98, CEI 021:2020, NC RFG, NTS DAKKS . |

## System diagram-PLCC



## System diagram-Wi-Fi

