# Microinverter
# BENY


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TÜVRheinland CERTIFIED
Type Approved
Safety
Regular Production Surveillance
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# Company Introduction

BENY new energy offers a reliable and robust electric fast charger with an attractive design that is easy to own and operate, with high quality power electronic components. It is a powerful charging station that can deliver up to 262 kW, with CCS1/CCS2/CHAdeMO/AC charging outlets.

We are a leading brand in 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. Certified by UL, SAA, CB, CE, TUV, UKCA, ISO, and RoHS, we have the first listed patented DC switch and produce creative solutions like the AFCI solution for rooftop fire protection, dynamic load balancing, and PEN fault detection EV charger.

**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+**
**Years of Experience**

**20+**
**Million Annual Production Capacity**

## BYM500/550/600

- Adapted to 60, 66, 72 cell or 120~150 sub cell PV panels
- Static MPPT efficiency 99.80%
- High reliability, IP67 (NEMA 6) enclosure



## Description

BENY single micro-inverter can connect a single photovoltaic panel, four-way micro-inverter can connect four photovoltaic panels, and realize module-level maintenance and management of photovoltaic stations by monitoring the power generation of each module.

The power generation data of BENY micro-inverse system can be uploaded to the monitoring platform through PLCC/Zigbee communication.

### SAFETY
Low DC voltage, and invisible.

### QUALITY
Components selected from world-class brands.

### OPTIMIZATION
Individual MPPT for each module.

### PARALLEL INPUT
18A continuous input

### FLEXIBILITY
Adapts to any system size and optimizes space.

### PLUG & PLAY
Hand-in-hand design. Fewer add-ons.

### 25 YEARS
Long 25 years lifetime. Up to 15 years warranty.

### SMART
Module-level online smart monitoring.

# BYM500/550/600

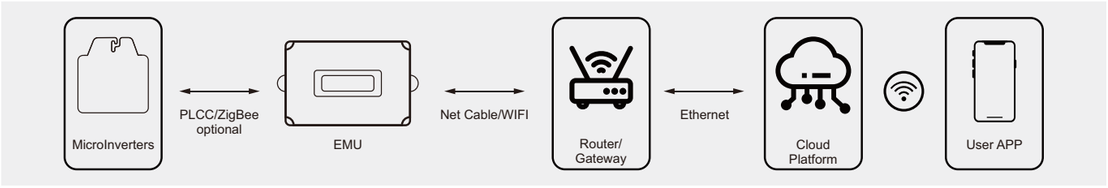

## Model Selection

| Input Data (DC) | | | |
|---|---|---|---|
| Model | BYM500 | BYM550 | BYM600 |
| Recommended Input Power (STC) | (400~700W) Single, 60~75 full/120~150 sub cells<br>(300~450W)*2 Parallel, 72~75 full/144~150 sub cells | | |
| MPPT Voltage Range | 24V-50V | | |
| Operating Voltage Range | 16V-60V | | |
| Maximum Input Voltage | 60V | | |
| Max. Short Circuit Current | 20A | | |
| Max. Input Current | 18A | | |
| **Output Data(AC)** | | | |
| Rated Output Power | 500VA | 550VA | 600VA |
| Maximum Output Power | 520VA<br>(Vac≥230,Vmp≥34) | 570VA<br>(Vac≥230,Vmp≥35) | 620VA<br>(Vac≥230,Vmp≥36) |
| Rated Voltage/range | 230V/176-265V | | |
| Rated Frequency/range | 50Hz/60Hz (46.5-62)Hz | | |
| Maximum Continuous Output Current | 2.27A | 2.5A | 2.73A |
| Maximum Harmonic Distortion | <3% | | |
| Power Factor | >0.99 (Default) | | |
| Maximum Connection Number In One String | 8 units (24A circuit breaker, 10AWG cable) | | |
| **Efficiency** | | | |
| Peak Efficiency | 96.5% | | |
| European Efficiency | 96% | | |
| MPPT Efficiency | >99.8% | | |
| Night Power Consumption | <100mW | | |

| Other Parameters | |
|---|---|
| Communication Method | PLCC/Zigbee Optional |
| Safety Protection | Classe I |
| Enclosure Rating | IP67 |
| Operating Temperature | -40℃ to +70℃ |
| Storage Temperature | -40℃ to +85℃ |
| Relative Humidity | 0-98% |
| Transformer Design | High frequency transformer, Electrical isolated |
| Overvoltage Class | OVC III (AC), OVC II (PV) |
| Warranty Period | 10 / 25years Optional |
| Dimensions(L*W*H mm) | 210*230*34 |
| Weight(kg) | 2.39 |
| Safety Regulations | IEC/EN 61000-6, CISPR11+A1+A2, IEC/EN 62109-1/2, EN 50549-1:2019 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 0-21:2020, NC RFG, NTS DAKKS. |

## Monitoring Device

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



## BYM2400/2800/3100

- Adapted to 60, 66, 72 cell or 120~150 sub cell PV panels
- Static MPPT efficiency 99.80%
- Peak efficiency 97.5%, EURO efficiency 97%
- High reliability, IP67 (NEMA 6) enclosure

## Description

BENY single micro-inverter can connect a single photovoltaic panel, four-way micro-inverter can connect four photovoltaic panels, and realize module-level maintenance and management of photovoltaic stations by monitoring the power generation of each module.

The power generation data of BENY micro-inverse system can be uploaded to the monitoring platform through PLCC/WIFI communication.

**SAFETY**
Low DC voltage, and invisible.

**QUALITY**
Components selected from world-class brands.

**OPTIMIZATION**
Individual MPPT for each module.

**PARALLEL INPUT**
18A/20A continuous input

**FLEXIBILITY**
Adapts to any system size and optimizes space.

**PLUG & PLAY**
Hand-in-hand design. Fewer add-ons.

**25 YEARS**
Long 25 years lifetime. Up to 15 years warranty.

**SMART**
Module-level online smart monitoring.

# BYM2400


## Model Selection

| Input Data (DC) | |
|---|---|
| Model | BYM2400 |
| Recommended Input Power (STC) | (450W-750W)*4, 60~75 Cell/120~150 Sub Cell<br>(350~550W)*8 parallel, 66~75 Cell/132~150 Sub 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 | 2400VA |
| Rated Voltage/range | 230V/176-265V |
| Rated Frequency/range | 50Hz/60Hz (46.5-62)Hz |
| Maximum Continuous Output Current | 10.43A |
| Maximum Harmonic Distortion | <3% |
| Power Factor | >0.99 (Default) |
| Maximum Connection Number In One String | 2 units (24A circuit breaker, 12AWG cable) |
| **Efficiency** | |
| Peak Efficiency | 97.5% |
| European Efficiency | 97% |
| MPPT Efficiency | >99.8% |
| Night Power Consumption | <100mW |

| Other Parameters | |
|---|---|
| Communication Method | PLCC/WIFI Optional |
| Safety Protection | Classe I |
| Enclosure Rating | IP67 |
| Operating Temperature | -40℃ to +70℃ |
| Storage Temperature | -40℃ to +85℃ |
| Relative Humidity | 0-98% |
| Transformer Design | High frequency transformer, Electrical isolated |
| Overvoltage Class | OVC III (AC), OVC II (PV) |
| Warranty Period | 10 / 25years Optional |
| Weight(kg) | 7.96 |
| Safety Regulations | IEC/EN 61000-6, CISPR11+A1+A2,<br>IEC/EN 62109-1/2, EN 50549-1:2019<br>VDE-AR-N 4105:2018/DIN VDE 0124:2020, AS 4777.2 :2020,<br>INMETRO,UTE C15-712-1/DIN VDE 0126/VFR 2019, G98,<br>CEI 0-21:2020, NC RFG, NTS DAKKS. |

# BYM2800/3100

## Model Selection

| Input Data (DC) | | |
|---|---|---|
| Model | BYM2800 | BYM3100 |
| Recommended Input Power (STC) | (450W-750W)*4, 60~75 Cell/120~150 Sub Cell<br>(350~550W)*8 parallel, 66~75 Cell/132~150 Sub Cell | |
| MPPT Voltage Range | 24V-50V | |
| Operating Voltage Range | 16V-60V | |
| Maximum Input Voltage | 60V | |
| Max. Short Circuit Current | 24A*4 | |
| Max. Input Current | 20A*4 | |
| **Output Data(AC)** | | |
| Rated Output Power | 2800VA | 3100VA |
| Rated Voltage/range | 230V/176-265V | |
| Rated Frequency/range | 50Hz/60Hz (46.5-62)Hz | |
| Maximum Continuous Output Current | 12.17A | 13.48A |
| Maximum Harmonic Distortion | <3% | |
| Power Factor | >0.99 (Default) | |
| Maximum Connection Number In One String | 2 units (27A circuit breaker, 12AWG cable) | |
| **Efficiency** | | |
| Peak Efficiency | 97.5% | |
| European Efficiency | 97% | |
| MPPT Efficiency | >99.8% | |
| Night Power Consumption | <100mW | |

| Other Parameters | |
|---|---|
| Communication Method | PLCC/WIFI Optional |
| Safety Protection | Classe I |
| Enclosure Rating | IP67 |
| Operating Temperature | -40℃ to +70℃ |
| Storage Temperature | -40℃ to +85℃ |
| Relative Humidity | 0-98% |
| Transformer Design | High frequency transformer, Electrical isolated |
| Overvoltage Class | OVC III (AC), OVC II (PV) |
| Warranty Period | 10 / 25years Optional |
| Weight(kg) | 7.96 |
| Safety Regulations | IEC/EN 61000-6, CISPR11+A1+A2,<br>IEC/EN 62109-1/2, EN 50549-1:2019<br>VDE-AR-N 4105:2018/DIN VDE 0124:2020, AS 4777.2 :2020,<br>INMETRO,UTE C15-712-1/DIN VDE 0126/VFR 2019, G98,<br>CEI 0-21:2020, NC RFG, NTS DAKKS. |

## Monitoring Device

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