



## Microinverter Datasheet

**BYM550 / BYM700**  
Connected to single panel

**BYM2800**  
Connected to four panels



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For the latest version of specification, please refer to [www.benyi.com](http://www.benyi.com) or contact to [benyi@zjbeny.com](mailto:benyi@zjbeny.com)  
We reserve the right to explain the terms of specification.



**ZBENY**

# Microinverter Datasheet



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

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

**OPTIMIZATION**  
Individual MPPT for each module.

**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.

## Advantage



## Description

With the maximum output power of 721W, BENY BYM550/BYM700 microinverter connect to 1 panel 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/Zigbee.



**Maximum output power up to 721W/channel, adapted to 60, 66,72 cell or 120,132,144, 150 sub cell PV panels**



**Static MPPT efficiency 99.80%**



**Peak efficiency 97.5% , EURO efficiency 97%**



**High reliability, IP67 (NEMA 6) enclosure, 6000 V surge protection**



## Features of BYM550



### 1. BYM550

#### Input Data(DC)

PV module power range(recommended)	(400~670W) × 1, 60/120、66/132、72/144、150 Cell/Sub-cell (300~450W) × 2, 66/132、72/144、150Cell/Sub-cell
MPPT voltage range	23V-56V
Operating voltage range	16V-60V
Maximum DC input voltage	60V
Maximum short circuit input current	20A
Maximum continuous input current	18A

#### Output Data(AC)

Rated output power	550VA
Maximum output power	600VA (Vac≥230 , Vmp≥34)
Rated voltage/range	230V/184-253V
Rated frequency/range	50Hz/60Hz (46.5-61)Hz
Maximum continuous output current	2.5A
Maximum harmonic distortion	<3%
Power factor	+/-0.95
Maximum connection number in one string	8 units(30A 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 class	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 main circuit), OVC II (PV)
Warranty period	10 years / 25 years(Optional)
Safety regulations	VDE-AR-N 4105, IEC/EN61000,IEC/EN62109-1/2,EN50549-1/2019, TOR2019 C10/11:2019, UTE C15-712-1:2013, VFR2019



**550W**  
Rated Power



**600W**  
Peak Power



**96.5%**  
Peak Efficiency



**20A**  
Maximum Short Circuit Current



**18A**  
Maximum Continuous current









**UP to 25Year**  
Warranty Year



# Features of BYM700



 <b>700W</b> Rated Power	 <b>721W</b> Peak Power	 <b>97.5%</b> Peak Efficiency
 <b>24A</b> Maximum Short Circuit Current	 <b>20A</b> Maximum Continuous Current	 <b>UP to 25Year</b> Warranty Year

## 2. BYM700

Input Data(DC)	
PV module power range(recommended)	(450W-750W)x 1, 60/120、66/132、72/144、150 Cell/Sub-cell (300~450W) × 2, 66/132、72/144、150Cell/Sub-cell
MPPT voltage range	24V-50V
Operating voltage range	16V-60V
Maximum DC input voltage	60V
Maximum short circuit input current	24A
Maximum continuous input current	20A
Output Data(AC)	
Rated output power	700VA
Maximum output power	721VA (Vac≥ 230, Vmp ≥38)
Rated voltage/range	230V/184-253V
Rated frequency/range	50Hz/60Hz (46.5-61)Hz
Maximum continuous output current	3A
Maximum harmonic distortion	<3%
Power factor	+/-0.95
Maximum connection number in one string	8 units ( 30A circuit breaker, 9AWG cable )
Efficiency	
Peak efficiency	97.5%
European efficiency	97%
MPPT efficiency	99.8%
Night power consumption	<100mW
Other parameters	
Communication method	PLCC/Zigbee Optional
Safety protection class	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 main circuit) , OVC II (PV)
Warranty period	10 years/ 25 years(Optional)
Safety regulations	VDE-AR-N 4105, IEC/EN61000,IEC/EN62109-1/2,EN50549-1/2019, TOR2019 C10/11:2019, UTE C15-712-1:2013, VFR2019





## Features of BYM2800



### 3. BYM2800

#### Input Data(DC)

PV module power range(recommended)	(450W-750W)x 4,60/120、66/132、72/144、150 Cell/Sub-cell (300~450W) × 8, 66/132、72/144、150Cell/Sub-cell
MPPT voltage range	24V-50V
Operating voltage range	16V-60V
Maximum DC input voltage	60V
Maximum short circuit input current	24A
Maximum continuous input current	20A x 4

#### Output Data(AC)

Rated output power	2800VA
Maximum output power	2940VA (Vac≥230, Vmp≥38)
Rated voltage/range	230V/184-253V
Rated frequency/range	50Hz/60Hz (46.5-61)Hz
Maximum continuous output current	12.17A
Maximum harmonic distortion	<3%
Power factor	+/-0.95
Maximum connection number in one string	2 units (30A circuit breaker, 9AWG cable)

#### Efficiency

Peak efficiency	97.5%
European efficiency	97%
MPPT efficiency	99.8%
Night power consumption	<100mW

#### Other parameters

Communication method	PLCC/Zigbee Optional
Safety protection class	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 main circuit) , OVC II (PV)
Warranty period	10 years / 25 years(Optional)
Safety regulations	VDE-AR-N 4105, IEC/EN61000, IEC/EN62109-1/2, EN50549-1/2019, TOR2019 C10/11:2019, UTE C15-712-1:2013, VFR2019



**2800W**  
Rated Power



**2940W**  
Peak Power



**97.5%**  
Peak Efficiency



**24A**  
Maximum Short Circuit Current



**20A**  
Maximum Continuous Current



**UP to 25Year**  
Warranty Year



### Monitoring Device

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