



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 or contact to 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 and 72 cells PV panels

Static MPPT efficiency 99.80%

Peak efficiency 97.5% , EURO efficiency 97%

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

Technical Specifications

1. BYM550

Input Data(DC)	
PV module power range(recommended)	400~670W, 60,66,72 Cell / (300~400W)*2 ,72Cell recommended
MPPT voltage range	24V-50V
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	2.39A
Maximum harmonic distortion	<3%
Power factor	+/-0.95
Maximum connection number in one string	10 units(30A circuit breaker, 9AWG 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



Technical Specifications

2. BYM700

Input Data(DC)	
PV module power range(recommended)	450W-750W, 60,66,72 Cell / (300~400W)*2, 72 Cell recommended
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	3.04A
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



Technical Specifications

3. BYM2800

Input Data(DC)	
PV module power range(recommended)	(450W-750W)*4,60,66,72 Cell /(300~400W)*8, 72Cell recommended
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



Monitoring Device

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