



Microinverter BENY



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For the latest version of specification, please refer to www.beny.com or contact to benyi@zjbeny.com
We reserve the right to explain the terms of specification.



Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 2000000000

WWW.BENY.COM



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**

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.

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



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.

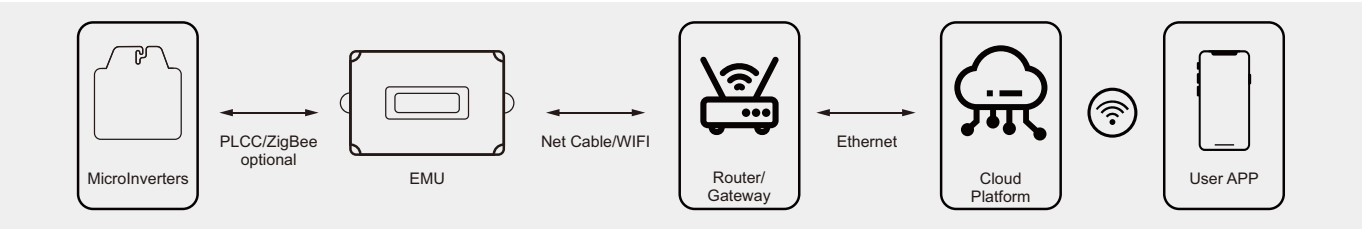
Model Selection

Input Data (DC)			
Model	BYM500	BYM550	BYM600
Recommended Input Power (STC)	(400~700W) Single, 60~75 full/120~150 sub cells (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 (Vac≥230,Vmp≥34)	570VA (Vac≥230,Vmp≥35)	620VA (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°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	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.



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.

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



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.

Model Selection

Input Data (DC)	
Model	BYM2400
Recommended Input Power (STC)	(450W-750W)*4, 60~75 Cell/120~150 Sub Cell (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°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	10 / 25years Optional
Weight(kg)	7.96
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.

Model Selection

Input Data (DC)		
Model	BYM2800	BYM3100
Recommended Input Power (STC)	(450W-750W)*4, 60~75 Cell/120~150 Sub Cell (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°C to +70°C
Storage Temperature	-40°C to +85°C
Relative Humidity	0-98%
Transformer Design	High frequency transformer, Electrical isolated
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