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Product Brochure



2025 For Europe

Empowering the Safe Advancement of the New Energy Sector Through AI

BENY is a global leader in the new energy industry, renowned for its extensive experience and innovation. Initially specializing in protective PV components, BENY has successfully diversified into the EV charging and PV power generation sectors.

PVB, a sub-brand of BENY dedicated to micro power systems, is launched to enhance customer service. The company focuses on microinverters and offers Easy Solar Kits and tailored PV solutions for residential and commercial use.

By developing and providing safe and efficient solutions, the company is committed to helping customers achieve renewable energy goals and empowering the global energy transition.

20+

Million Annual
Production
Capacity

30+

Years of
Experience

100+

Countries/
Regions Covered

2 Million+

Successful
Projects

2011

BENY New
Energy established

2015

Obtained the first UL508i
certification and a patent
for DC switches

2018

Obtained CEC certification in
Australia and became the
industry standard-bearer

2023

Achieved successful grid
connection of combiners
boxes in a 7GW PV power plant

2014

Certified with ISO9001
and ISO14000 systems

2017

Awarded as a "National
High-tech Enterprise"

2021

Received China's first UL98B
certification with BH series switches

2024

Recognized as a national-level
innovative "Little Giants" firm



Contents

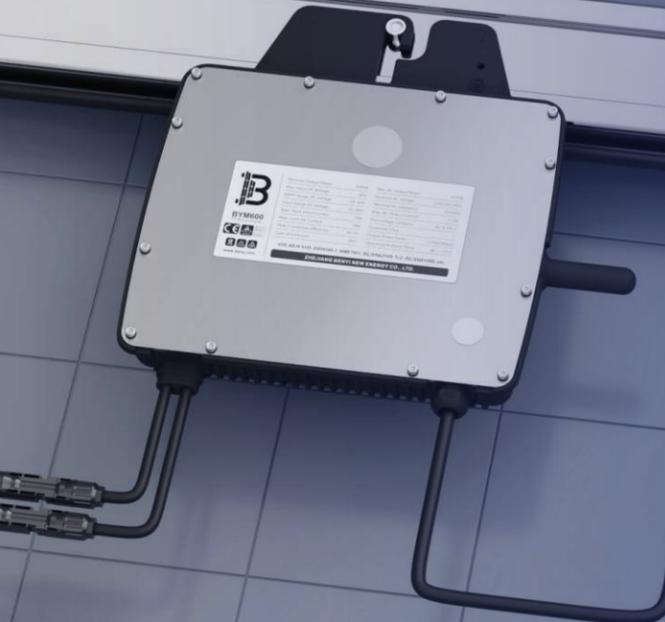
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Trunk Series BYM400/500/550/600



Why choose our product?

- 
More Powerful
 The world's most powerful Single-in Microinverter with up to 600W AC output
- 
Highly Efficient
 Module-level MPPT with no short board effect for higher power output
- 
More Reliable
 IP67 waterproof, standard 12 years warranty, extendable to 25 years
- 
Easily Expandable
 Easy system expansion and lower cost, ready for the future
- 
Highly Compatible
 Up to 20A DC input current, capable working with most types of PV modules



Highlights

- Compatible with 1/2 PV modules and up to 410VA/510VA/560VA/600VA output power
- Working at -40°C to +70°C with no more than 10% derating at 55°C
- Low operating voltage up to 60Vdc with ZERO DC arc fire risks
- PLCC & Wi-Fi stable communication for module-level monitoring
- Intuitive and efficient energy management by mobile app and web platform
- Compatible with mono type, film modules, and roof tile modules
- Flexible installation in scenarios like balcony, garden, rooftop, etc.

Datasheet

Model	BYM400	BYM500	BYM550	BYM600
Input Data (DC)				
Recommended input power (STC)	320~600W+	400~750W+	440~825W+	480~900W+
MPPT voltage range	24V~50V			
Operating voltage range	16V~60V			
Maximum input voltage	60V			
Max. short circuit current		20A		24A
Max. input current		18A		20A
Output Data (AC)				
Rated output power	400VA	500VA	550VA	600VA
Maximum output power	410VA (Vac>230,Vmp>26)	510VA (Vac>230,Vmp>31)	560VA (Vac>230,Vmp>34)	600VA (Vac>220,Vmp>33)
Rated voltage (range)	230V (176V~265V)			
Rated frequency (range)	50Hz/60Hz (46.5Hz~62Hz)			
Maximum continuous output current	1.82A	2.27A	2.5A	2.73A
Maximum harmonic distortion	<4%			
Power factor	>0.99 (Default)			
Maximum connection number in one string (PLCC) (30A circuit breaker, 4mm2 cable)	16 units	13 units	12 units	10 units
Maximum connection number in one string (Wi-Fi) (40A circuit breaker, 6mm2 cable)	21 units	17 units	15 units	14 units
Efficiency				
Peak efficiency	96.5%			
MPPT efficiency	>99.8%			
Night power consumption	<100mW			
Other Parameters				
Communication method	PLCC/Bluetooth+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)	210*230*34			
Weight (kg)	2.39			
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 .			

Trunk Series BYM800/900/1000L



Why choose our product?

- 
More Secure
 Zero fire risk with up to 60Vdc low DC voltage vs conventional string system
- 
More Reliable
 IP67 waterproof, standard 12 years warranty, extendable to 25 years
- 
Easily Expandable
 Easy system expansion and lower cost, ready for the future
- 
Highly Compatible
 Up to 14A*2 DC input current, capable working with most types of PV modules
- 
Multi-scenario
 Offering multiple communication technology with Wi-Fi, Bluetooth & PLCC, adapts to various installation scenarios

Highlights

- High-powered dual-in microinverter with output power up to 800VA/900VA/1000VA
- Working at -40°C to +70°C with no more than 10% derating at 55°C
- Compatible with 2 PV modules and up to 14A*2 continuous input current
- PLCC & Wi-Fi stable communication for module-level monitoring
- Intuitive and efficient energy management by mobile app and web platform
- Compatible with mono type, film modules, and roof tile modules
- Flexible installation in scenarios like balcony, garden, rooftop, etc.

Datasheet

Model	BYM800	BYM900	BYM1000L
Input Data (DC)			
Recommended input power (STC)	320~600W+	360~675W+	384~720W+
MPPT voltage range	24V~50V		
Operating voltage range	16V~60V		
Maximum input voltage	60V		
Max. short circuit current	20A*2		
Max. input current	13A*2	13.5A*2	14A*2
Output Data (AC)			
Rated output power	800VA	900VA	960VA
Maximum output power	800VA (Vac≥220, Vmp≥34)	900VA (Vac≥220, Vmp≥35)	1000VA (Vac≥238, Vmp≥40)
Rated voltage (range)	230V (176V~265V)		
Rated frequency (range)	50Hz/60Hz (46.5Hz~62Hz)		
Maximum continuous output current	3.64A	4.09A	4.36A
Maximum harmonic distortion	<4%		
Power factor	>0.99 (Default)		
Maximum connection number in one string (PLCC) (30A circuit breaker, 4mm ² cable)	8 units	7 units	6 units
Maximum connection number in one string (Wi-Fi) (40A circuit breaker, 6mm ² cable)	10 units	9 units	9 units
Efficiency			
Peak efficiency	96.5%		
MPPT efficiency	>99.8%		
Night power consumption	<100mW		
Other Parameters			
Communication method	PLCC/Bluetooth+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)	268.5*215*40		
Weight (kg)	3.6		
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 .		

Trunk Series

BYM1000/1200



Why choose our product?



More Powerful

The world's most powerful Dual-in Microinverter with up to 1200W AC output



Highly Efficient

Module-level MPPT with no short board effect for higher power output



More Secure

Zero fire risk with up to 60Vdc low DC voltage vs conventional string system



Highly Compatible

Up to 18A*2 DC input current, capable working with most types of PV modules



Multi-scenario

Offering multiple communication technology with Wi-Fi, Bluetooth & PLCC, adapts to various installation scenarios

Highlights

- High-powered dual-in microinverter with output power up to 1000VA/1200VA
- Working at -40°C to +70°C with no more than 10% derating at 55°C
- Compatible with 2 PV modules and up to 18A*2 continuous input current
- Module-level and efficient energy management by web platform and mobile app
- Hassle-free with up to 25 years of warranty
- Compatible with mono type, film modules, and roof tile modules
- Flexible installation in scenarios like balcony, garden, rooftop, etc.

Datasheet

Model	BYM1000	BYM1200
Input Data (DC)		
Recommended input power (STC)	400~750W+	480~900W+
MPPT voltage range	24V~50V	
Operating voltage range	16V~60V	
Maximum input voltage	60V	
Max. short circuit current	20A*2	
Max. input current	18A*2	
Output Data (AC)		
Rated output power	1000VA	1200VA
Maximum output power	1000VA (Vac≥230, Vmp≥34)	1200VA (Vac≥230, Vmp≥36)
Rated voltage (range)	230V (176V~265V)	
Rated frequency (range)	50Hz/60Hz (46.5Hz~62Hz)	
Maximum continuous output current	4.55A	5.45A
Maximum harmonic distortion	<4%	
Power factor	>0.99 (Default)	
Maximum connection number in one string (PLCC) (30A circuit breaker, 4mm ² cable)	6 units	5 units
Maximum connection number in one string (Wi-Fi) (40A circuit breaker, 6mm ² cable)	8 units	7 units
Efficiency		
Peak efficiency	96.5%	
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)	272.9*260.9*34.5	
Weight (kg)	3.5	
Safety regulations	IEC/EN61000-6, 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, CEI0-21:2020, NC RFG, NTS DAKKS	

Trunk Series BYM2000/2400/2800



Why choose our product?

- 
More Powerful
 The world's most powerful Quad-in Microinverter with up to 2800W AC output
- 
Highly Efficient
 Module-level MPPT with no short board effect for higher power output
- 
More Reliable
 IP67 waterproof, standard 12 years warranty, extendable to 25 years
- 
Highly Compatible
 Up to 20A*4 DC input current, capable working with most types of PV modules
- 
Multi-scenario
 Offering multiple communication technology with Wi-Fi, Bluetooth & PLCC, adapts to various installation scenarios

Highlights

- High-powered quad-in microinverter with output power up to 2000VA/2400VA/2800VA
- Working at -40°C to +70°C with no more than 10% derating at 55°C
- Compatible with 4 modules and up to 20A*4 continuous input current
- Low operating voltage up to 60Vdc with ZERO DC arc fire risks
- Module-level and efficient energy management by web platform and mobile app
- Compatible with mono type, film modules, and roof tile modules
- Flexible installation in scenarios like balcony, garden, rooftop, etc.

Datasheet

Model	BYM2000	BYM2400	BYM2800
Input Data (DC)			
Recommended input power (STC)	400~750W+	480~900W+	560~1050W+
MPPT voltage range	24V~50V		
Operating voltage range	16V~60V		
Maximum input voltage	60V		
Max. short circuit current	20A*4		24A*4
Max. input current	18A*4		20A*4
Output Data (AC)			
Rated output power	2000VA	2400VA	2800VA
Rated voltage (range)	230V (176V~265V)		
Rated frequency (range)	50Hz/60Hz (46.5Hz~62Hz)		
Maximum continuous output current	9.10A	11.0A	12.8A
Maximum harmonic distortion	<4%		
Power factor	>0.99 (Default)		
Maximum connection number in one string (PLCC) (30A circuit breaker, 4mm2 cable)	3 units	2 units	2 units
Maximum connection number in one string (Wi-Fi) (40A circuit breaker, 6mm2 cable)	4 units	3 units	2 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 .		

Accessories: Trunk Series

For trunk series of microinverters

AC Accessories

<p>Trunk Connection Cable</p>  <p>Connect adjacent trunk connectors</p>	<p>AC Plug Cable</p>  <p>For balcony/garden solutions; two ends connect to the microinverter's AC output and a household socket respectively</p>	<p>Trunk Sealing Cap</p>  <p>Cover unused connection ports on the trunk</p>
<p>Trunk Connector</p>  <p>Connect the microinverter's AC output to the AC trunk</p>	<p>Trunk Disconnect Tool</p>  <p>Disassemble trunk connectors from male and female connectors</p>	<p>Trunk End Connector</p>  <p>For scenarios with multiple microinverters; installers can wire freely and create tail cables easily</p>

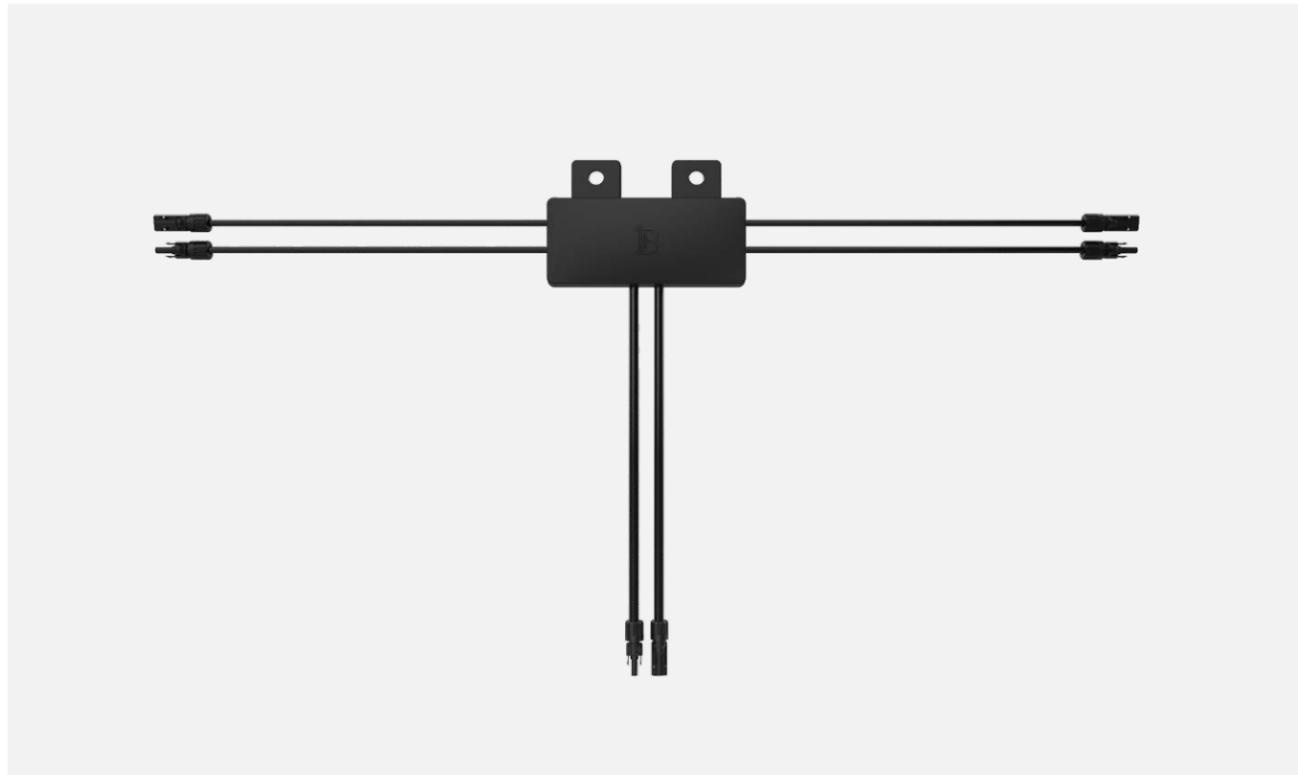
DC Accessories

<p>DC Extension Cable</p>  <p>Used when the length of the PV module DC cable is insufficient</p>	<p>DC Y-Branch Cable (1 Pair)</p>  <p>For parallel connection of two PV modules, one positive and one negative</p>
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Datasheet

AC Accessories		
Model	Trunk Connection Cable	
Material	PV07AC-F 3G	
Diameter	4mm ²	6mm ²
Rated current	30A	40A
Length	1.1m/2.3m/4.6m	
Model	AC Plug Cable	
Material	H07RN-F 3G	
Diameter	1.5mm ²	
Rated current	16A	
Length	5m	
Model	Trunk Sealing Cap	
Protection rating	IP68	
Model	Trunk Connector	
Rated voltage	300V (TUV, CSA)	
Main line rated current	40A	
Branch line rated current	20A	
Model	Trunk Disconnect Tool	
Material	PA6-G45 NC152	
Model	Trunk End Connector	
Rated voltage	300V	
Rated current	40A	
Compatible cable diameter	4mm ² /6mm ²	
Compatible cable outer diameter	10.0~13.0mm	
DC Accessories		
Model	DC Extension Cable	
Material	PV	
Diameter	4mm ²	
Rated voltage	EN 1500V DC UL 2000V DC	
Protection rating	IP68	
Connector	Stäubli	
Length	Recommended 1.5m	
Model	DC Y-Branch Cable (1 Pair)	
Material	PV	
Diameter	4mm ²	
Rated voltage	EN 1500V DC UL 2000V DC	
Protection rating	IP68	
Connector	Stäubli	JINGHUA
Length	50cm	

BYPO-2



With two input sets and one output set, this paralleling optimizer enhances PV module performance by enabling parallel connections.

It increases output current and power, featuring ultra-low voltage drop and losses. This effectively resolves current backflow issues, thereby improving system efficiency.

Highlights

- High safety by parallel input, avoiding high voltage
- High reliability with operating parameters and faults evaluation
- High system efficiency with ultra low power loss

Datasheet

Input parameters (DC)	
Input voltage range	8V ~ 60V
Maximum DC input voltage	60V
Maximum short-circuit input current	20A*2
Maximum continuous input current	18A*2
Output parameters (DC)	
Maximum DC output voltage	60V
Forward voltage drop diode forward voltage	≤40mV, typical value 30mV (Vin1=Vin2, Iin1 =Iin2=10A)
Maximum continuous output current	32A
Maximum power consumption	≤1.2W, typical value 0.6W (Iout=20A)
Other parameters	
Protective class	II
Housing rating	IP67
Pollution degree	II
Environmental category	Outdoor
Altitudes	2000
Working temperature	-40°C ~ +70°C
Storage temperature	-40°C ~ +85°C
Humidity range	0-98%
Overvoltage level	OVC II (PV)
Input reverse protection	>7h (Iin1 = Iin2 = -20A)
Warranty period	10 years
Certification standards	IEC/EN62109-1

Daisy Chain Series

BYM800D/900D/1000LD



Why choose our product?

- 
More Secure
 Zero fire risk with up to 60Vdc low DC voltage vs conventional string system
- 
Smart
 Module-level monitoring available for PC, Pad & smart phone
- 
More Reliable
 IP67 waterproof, standard 12 years warranty, extendable to 25 years
- 
Easily Expandable
 Easy system expansion and lower cost, ready for the future
- 
Highly Compatible
 Up to 14A*2 DC input current, capable working with most types of PV modules

Highlights

- High-powered dual-in microinverter with output power up to 800VA/900VA/1000VA
- Working at -40°C to +70°C with no more than 10% derating at 55°C
- Compatible with 2 PV modules and up to 14A*2 continuous input current
- PLCC & Wi-Fi stable communication for module-level monitoring
- Compatible with mono type, film modules, and roof tile modules
- Flexible installation in scenarios like balcony, garden, rooftop, etc.

Datasheet

Model	BYM800D	BYM900D	BYM1000LD
Input Data (DC)			
Recommended input power (STC)	320~600W+	360~675W+	384~720W+
MPPT voltage range	24V~50V		
Operating voltage range	16V~60V		
Maximum input voltage	60V		
Max. short circuit current	20A*2		
Max. input current	13A*2	13.5A*2	14A*2
Output Data (AC)			
Rated output power	800VA	900VA	960VA
Maximum output power	800VA (Vac≥220, Vmp≥34)	900VA (Vac≥220, Vmp≥35)	1000VA (Vac≥238, Vmp≥40)
Rated voltage (range)	230V (176V~265V)		
Rated frequency (range)	50Hz/60Hz (46.5Hz~62Hz)		
Maximum continuous output current	3.64A	4.09A	4.36A
Maximum harmonic distortion	<4%		
Power factor	>0.99 (Default)		
Maximum connection number in one string (25A circuit breaker, 4mm ² cable)	6 units	6 units	5 units
Efficiency			
Peak efficiency	96.5%		
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)	268.5*215*40		
Weight (kg)	4.1		
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 .		

Daisy Chain Series BYM1000D/1200D



Why choose our product?

- 
More Powerful
 The world's most powerful Dual-in Microinverter with up to 1200W AC output
- 
Highly Efficient
 Module-level MPPT with no short board effect for higher power output
- 
Smart
 Module-level monitoring available for PC, Pad & smart phone
- 
Easily Expandable
 Easy system expansion and lower cost, ready for the future
- 
Highly Compatible
 Up to 18A*2 DC input current, capable working with most types of PV modules

Highlights

- Compatible with 2 PV modules and up to 1000VA/1200VA output power
- Working at -40°C to +70°C with no more than 10% derating at 55°C
- Low operating voltage up to 60Vdc with ZERO DC arc fire risks
- PLCC & Wi-Fi stable communication for intuitive and efficient energy management
- Hassle-free with up to 25 years of warranty
- Compatible with mono type, film modules, and roof tile modules
- Flexible installation in scenarios like balcony, garden, rooftop, etc.

Datasheet

Model	BYM1000D	BYM1200D
Input Data (DC)		
Recommended input power	400~750W+	480~900W+
MPPT voltage range	24V~50V	
Operating voltage range	16V~60V	
Maximum input voltage	60V	
Max. short circuit current	20A*2	
Max. input current	18A*2	
Output Data (AC)		
Rated output power	1000VA	1200VA
Maximum output power	1000VA (Vac≥230, Vmp≥34)	1200VA (Vac≥230, Vmp≥36)
Rated voltage (range)	230V (176V~265V)	
Rated frequency (range)	50Hz/60Hz (46.5Hz~62Hz)	
Maximum continuous output current	4.55A	5.45A
Maximum harmonic distortion	<4%	
Power factor	>0.99 (Default)	
Maximum connection number in one string (25A circuit breaker, 4mm ² cable)	5 units	4 units
Efficiency		
Peak efficiency	96.5%	
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)	272.9*260.9*35.5	
Weight (kg)	4.27	
Safety regulations	IEC/EN61000-6, 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, CEI0-21:2020, NC RFG, NTS DAKKS	

Accessories: Daisy Chain Series

For daisy chain series of microinverters

AC Accessories

Daisy Connector Male



Used for mating with a daisy connector female

Daisy Connector Female



Used for mating with a daisy connector male

Daisy Sealing Cap Male



Used when the length of the PV module DC cable is insufficient

Daisy Sealing Cap Female



Used for protecting daisy connector female

DC Accessories

DC Extension Cable



Used when the length of the PV module DC cable is insufficient

DC Y-Branch Cable (1 Pair)

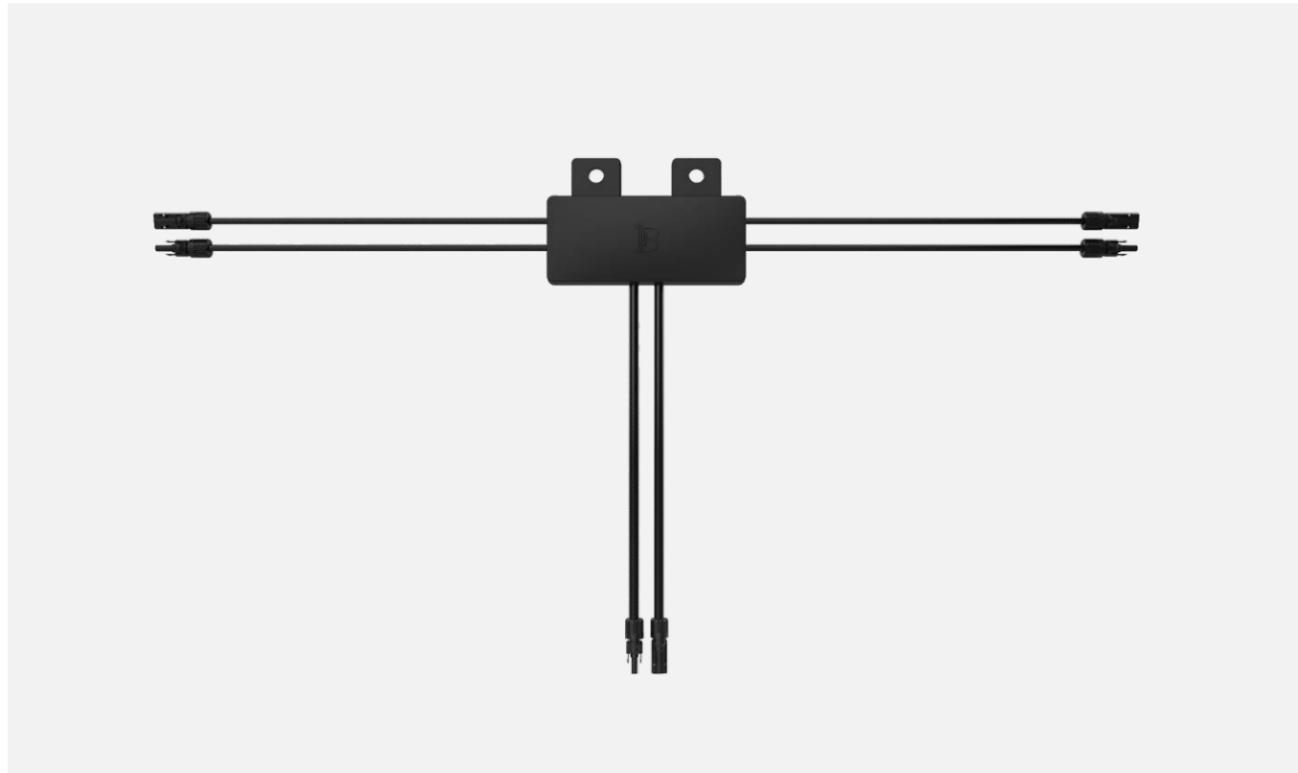


For parallel connection of two PV modules, one positive and one negative

Datasheet

AC Accessories	
Model	Daisy Connector Male
Rated voltage	CSA 250V/350V TUV 250V
Rated current	25A
Model	Daisy Connector Female
Rated voltage	CSA 250V/350V TUV 250V
Rated current	25A
Model	Daisy Sealing Cap Male
Protection rating	IP68
Model	Daisy Sealing Cap Female
Protection rating	IP68
DC Accessories	
Model	DC Extension Cable
Material	PV
Diameter	4mm ²
Rated voltage	EN 1500V DC UL 2000V DC
Protection rating	IP68
Connector	Stäubli
Length	Recommended 1.5m
Model	DC Y-Branch Cable (1 Pair)
Material	PV
Diameter	4mm ²
Rated voltage	EN 1500V DC UL 2000V DC
Protection rating	IP68
Connector	Stäubli JINGHUA
Length	50cm

BYPO-2



With two input sets and one output set, this paralleling optimizer enhances PV module performance by enabling parallel connections.

It increases output current and power, featuring ultra-low voltage drop and losses. This effectively resolves current backflow issues, thereby improving system efficiency.

Highlights

- High safety by parallel input, avoiding high voltage
- High reliability with operating parameters and faults evaluation
- High system efficiency with ultra low power loss

Datasheet

Input parameters (DC)	
Input voltage range	8V ~ 60V
Maximum DC input voltage	60V
Maximum short-circuit input current	20A*2
Maximum continuous input current	18A*2
Output parameters (DC)	
Maximum DC output voltage	60V
Forward voltage drop diode forward voltage	≤40mV, typical value 30mV (Vin1=Vin2, Iin1 =Iin2=10A)
Maximum continuous output current	32A
Maximum power consumption	≤1.2W, typical value 0.6W (Iout=20A)
Other parameters	
Protective class	II
Housing rating	IP67
Pollution degree	II
Environmental category	Outdoor
Altitudes	2000
Working temperature	-40°C ~ +70°C
Storage temperature	-40°C ~ +85°C
Humidity range	0-98%
Overvoltage level	OVC II (PV)
Input reverse protection	>7h (Iin1 = Iin2 = -20A)
Warranty period	10 years
Certification standards	IEC/EN62109-1

Intelligent Energy Monitoring

The PVB intelligent solar energy monitoring system integrates hardware and software, providing a comprehensive energy management solution. Hardware includes BYG2000-8S/24S gateways that collect and transmit data. The software includes two digital platforms, ZJBENY PV Data Management Platform and PVB Cloud. The system achieves efficient system management by intuitively displaying real-time power generation data and monitoring the system status.



BYG2000-8S/24S



It serves as the communication bridge between the microinverter and the ZJBENY PV Data Management Platform. Utilizing PLCC for LAN communication with the microinverter, it gathers operational data and transmits this information to the Platform via the WAN. This allows users to monitor and manage the PV solar system at the module level from anywhere at any time.

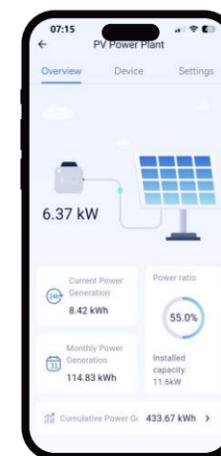
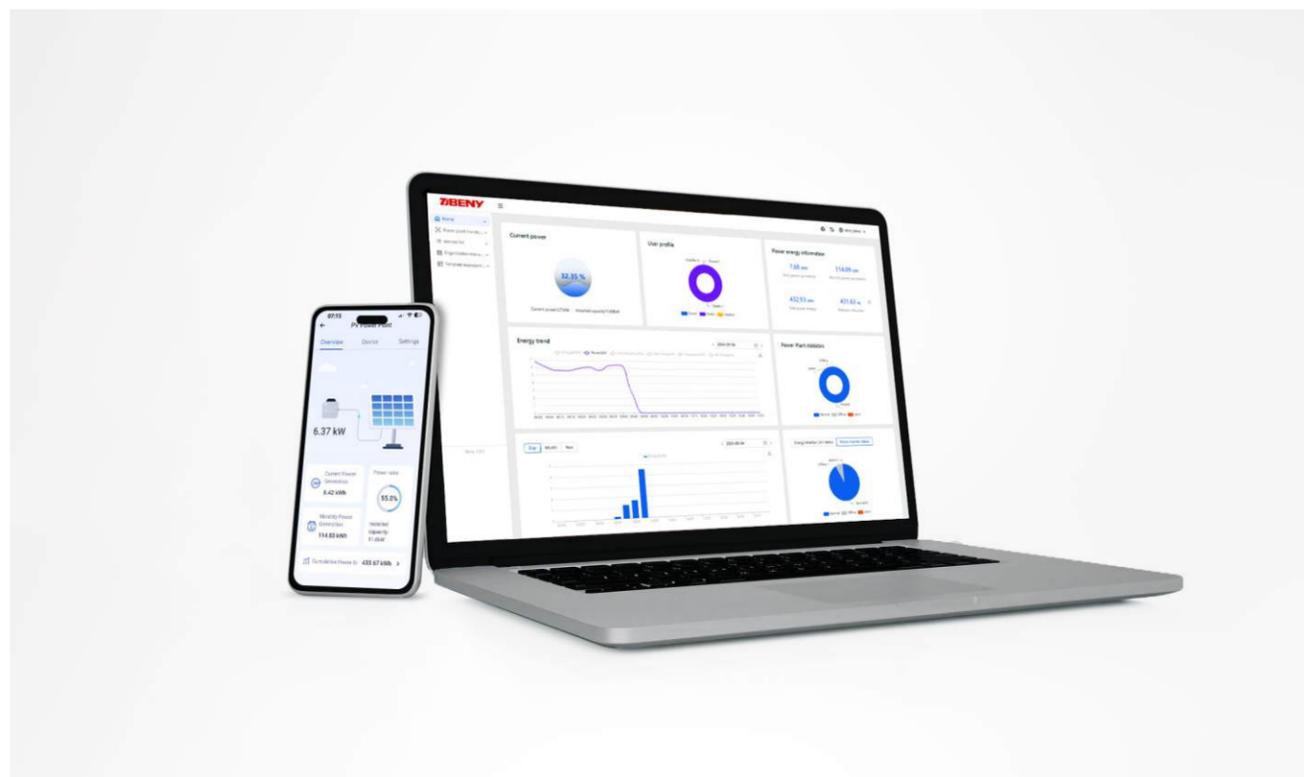
Highlights

- Wide range of input voltage (single-phase AC 85-265V, 50/60 Hz)
- Module-level real-time monitoring and remote management via web platform and mobile app
- Optimized management with detailed information (PV module array layouts, operation status, real-time and history data review and export)
- Network configuration by mobile app directly connected to gateway's hotspot
- Self-generating and self-consumption, zero feedback to the power grid
- Local microinverter data storage when the network is disconnected

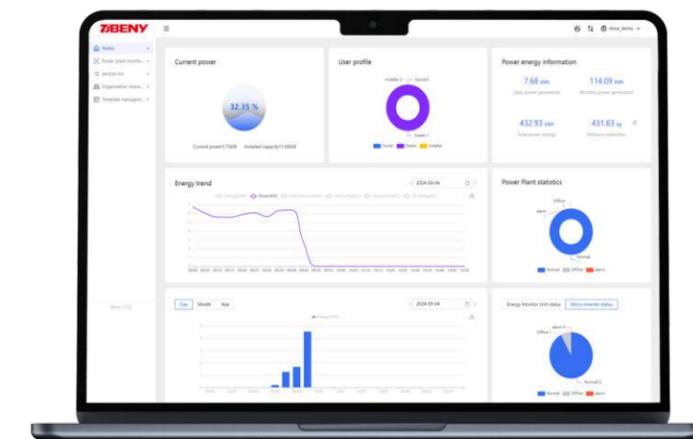
Datasheet

Model	BYG2000-8S	BYG2000-24S
PLCC		
Communication mode	PLCC (Power Line Carrier)	
Power line frequency range	48Hz~62.7Hz	
Carrier frequency	60.8KHz~92.8KHz	
Maximum communication distance	300 m	
Ethernet		
Communication mode	Ethernet communication	
Interface type	RJ45 interface	
Communication rate	10/100 Mbps	
Wi-Fi		
Communication mode	Wi-Fi	
Carrier frequency band	2.412 GHz~2.484 GHz	
Communication rate	Up to 150Mbps	
General parameters		
Operating voltage	Single-phase AC 85V-265V, 50/60Hz	
Power consumption	<6W	
Connectable sigle-channel MI	8 units	
Waterproof grade	IP65	
Max. Input Current	25A	25A
Max. Output Current	25A	66A
Max. Load Current	25A	66A
Installation method	Wall-mounted	
Weight	3.66Kg	6.32Kg
Work environment		
Operating temperature	-20°C ~ +65°C	
Storage temperature	-20°C ~ +85°C	
Operating humidity	5%~95%RH (no condensation)	
Storage humidity	1%~95%RH (no condensation)	

Intuitive Monitoring Platforms



PVB Cloud



ZJBENY PV Data Management Platform

Take full control of your system with PVB monitoring platforms. By offering detailed information such as PV module array layouts and power generation data, users can efficiently manage their systems. Real-time and historical data review, analysis, and export enable users to optimize system management effectively.

Highlights

- Real-time data analysis and power generation data visualization
- Hierarchical management between multiple power stations
- Remote one-click activation of anti-backflow functionality
- Intuitive and efficient operation, secure and reliable data management
- Simultaneous login and data viewing on multiple devices
- Quick issue resolution by providing troubleshooting solutions proactively



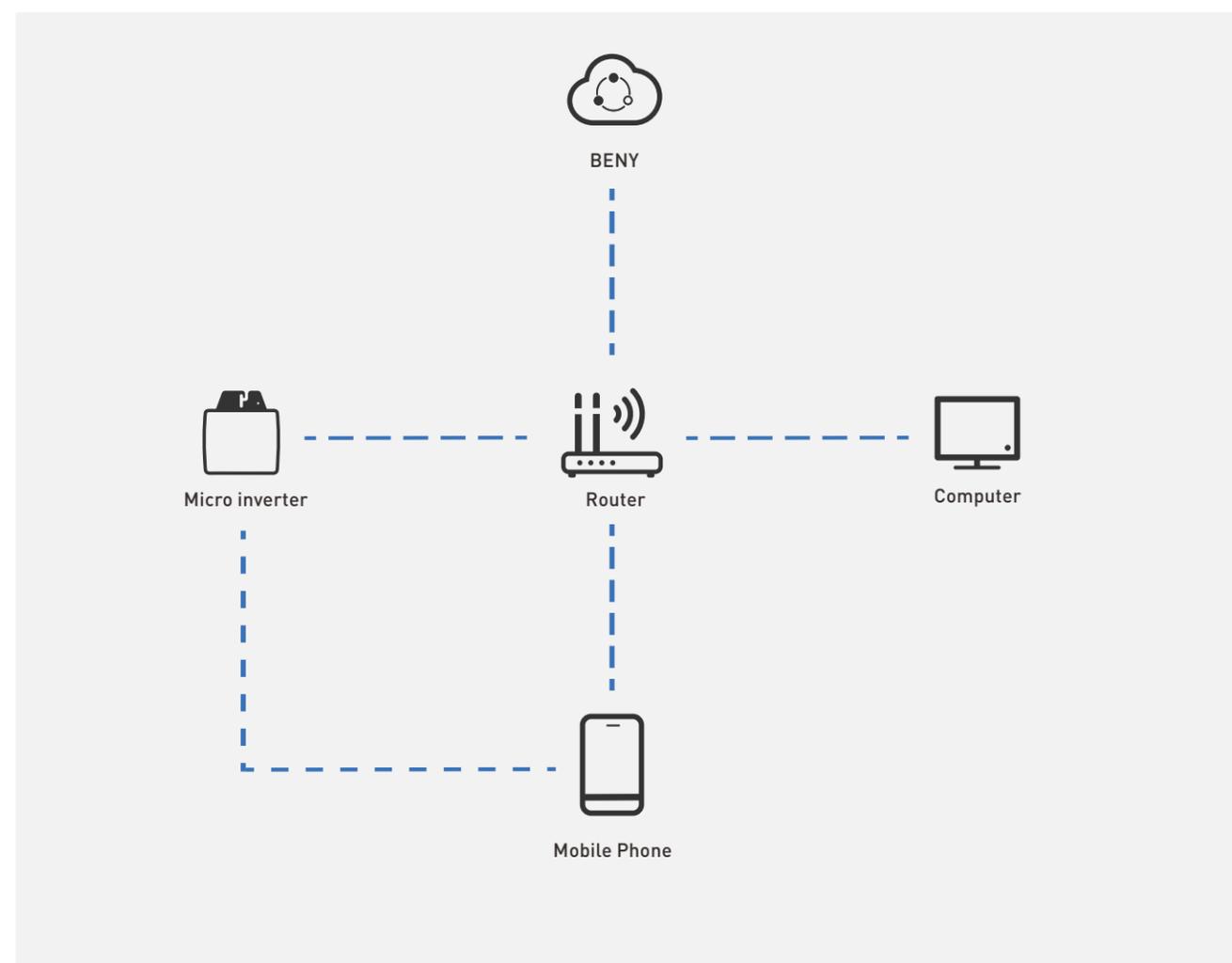
Efficient Monitoring via Different Communication Methods

Wi-Fi + Bluetooth

The microinverter connects directly to the WAN and transmits system data to the cloud platform in real-time. Devices such as computers and mobile phones connect to the WAN to access this data for monitoring and management.

Compatible platforms: ZJBENY PV Data Management Platform & PVB Cloud app

Network configuration methods: Access Point (AP) mode + Bluetooth mode



PLCC

The microinverter connects to the gateway and transmits system data in real-time via PLCC. The gateway then uploads this data to the cloud platform via WAN, allowing devices such as computers and mobile phones to access for monitoring and management purposes when connected to the same WAN.

Compatible platforms: ZJBENY PV Data Management Platform & PVB Cloud app

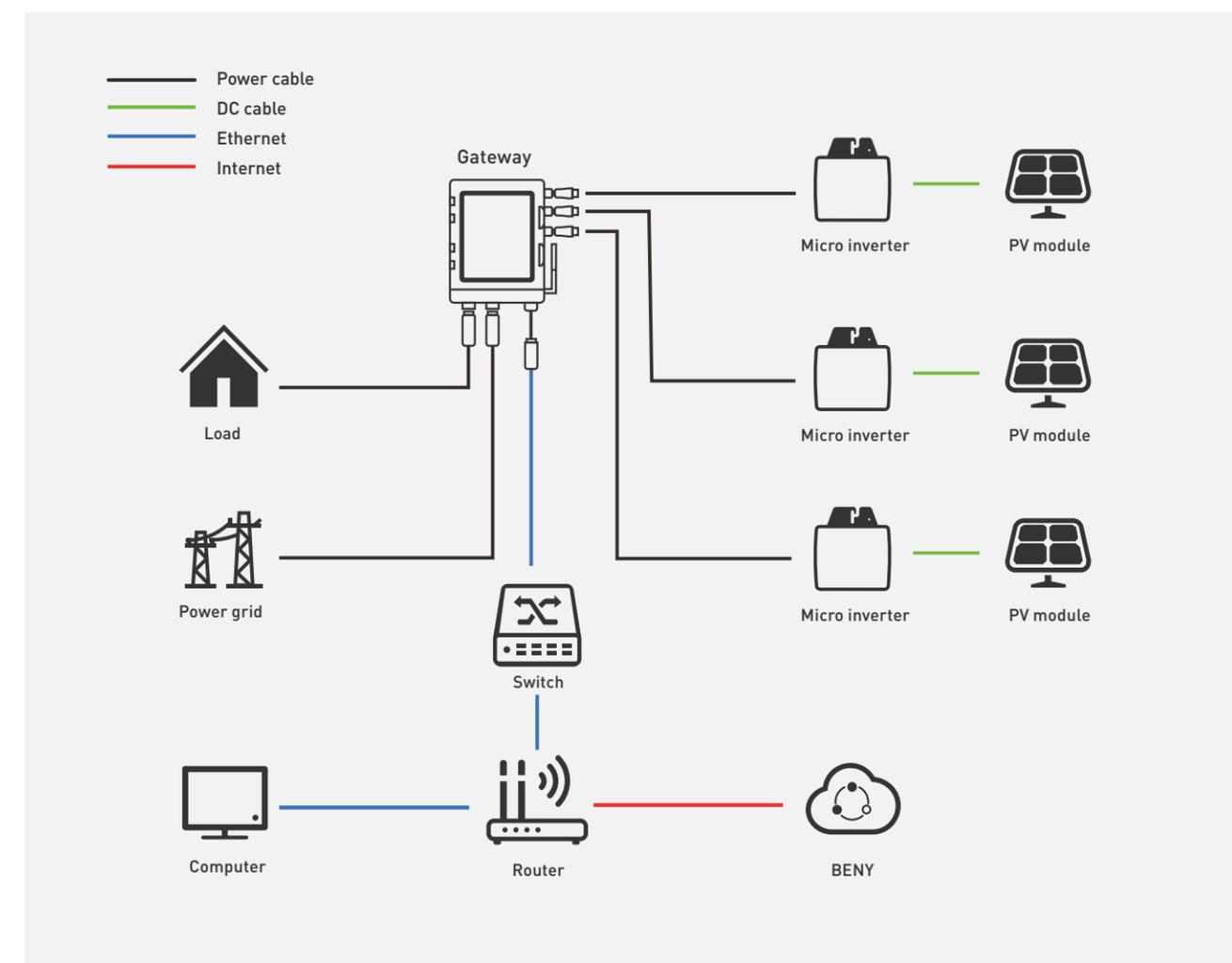
Network configuration method: Connected via gateway

Advantages of gateway:

- Local storage of system data
- Self-generation and self-consumption with zero feedback to the grid

Benefits of filter:

- Enhance PLCC within the local network of monitoring devices and microinverters
- Filter out the interference of PLCC signals to the power grid
- Prevent crosstalk between multiple EMU and microinverter systems



Integrated Residential Solutions

Whether users are looking to generate clean energy from solar using a small balcony, garden, or large rooftop, PVB offers integrated solutions to meet their needs.



One-stop Solutions

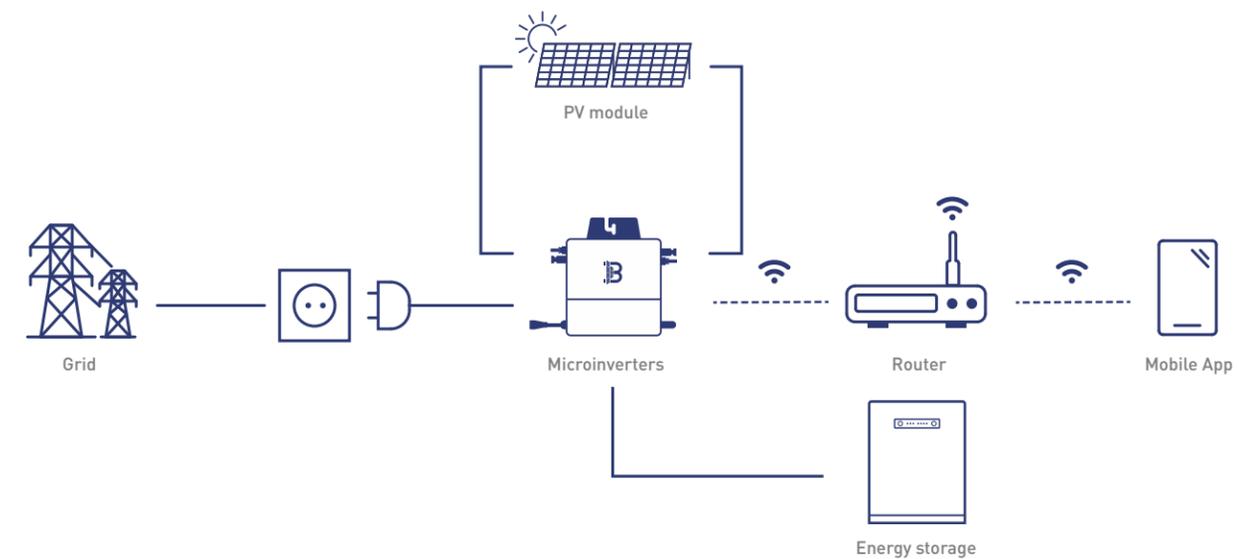
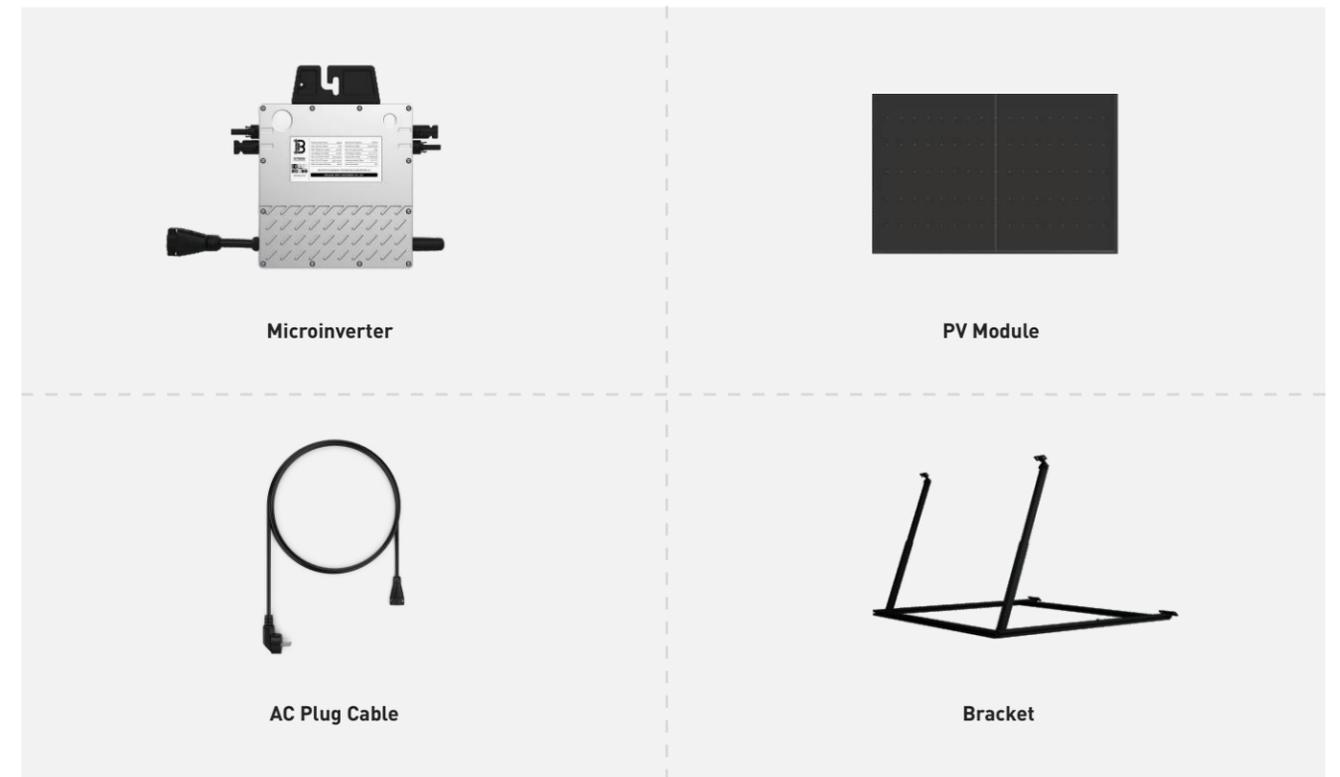


Balcony/Garden Solar PV System

This one-stop solution, Easy Solar Kit, integrates PV modules, microinverters, brackets, cables, and optional energy storage systems, suitable for limited spaces like balconies, walls, and gardens. With its plug-and-play design, it maximizes energy production efficiency while minimizing installation time and effort.

Highlights

- Adjustable angle for optimal power generation
- Plug-and-play system reduces installation time and costs
- Integrated solution greatly minimizes user hassle
- Portable and foldable for easy relocation
- Compact size for convenient transportation
- Up to 25-year warranty time for peace of mind
- Smart monitoring with web platform and mobile app





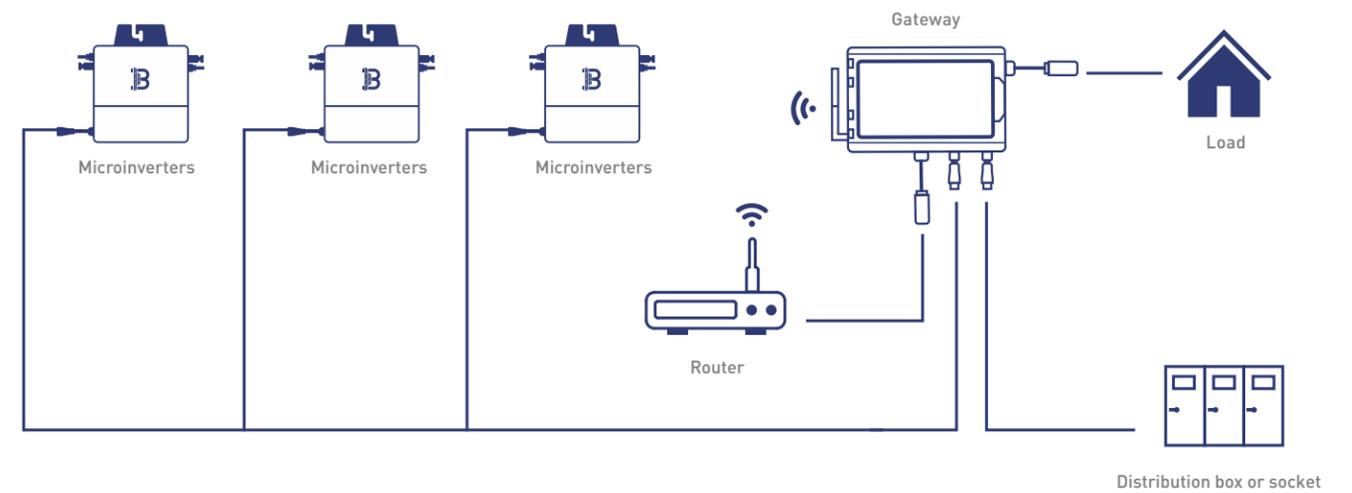
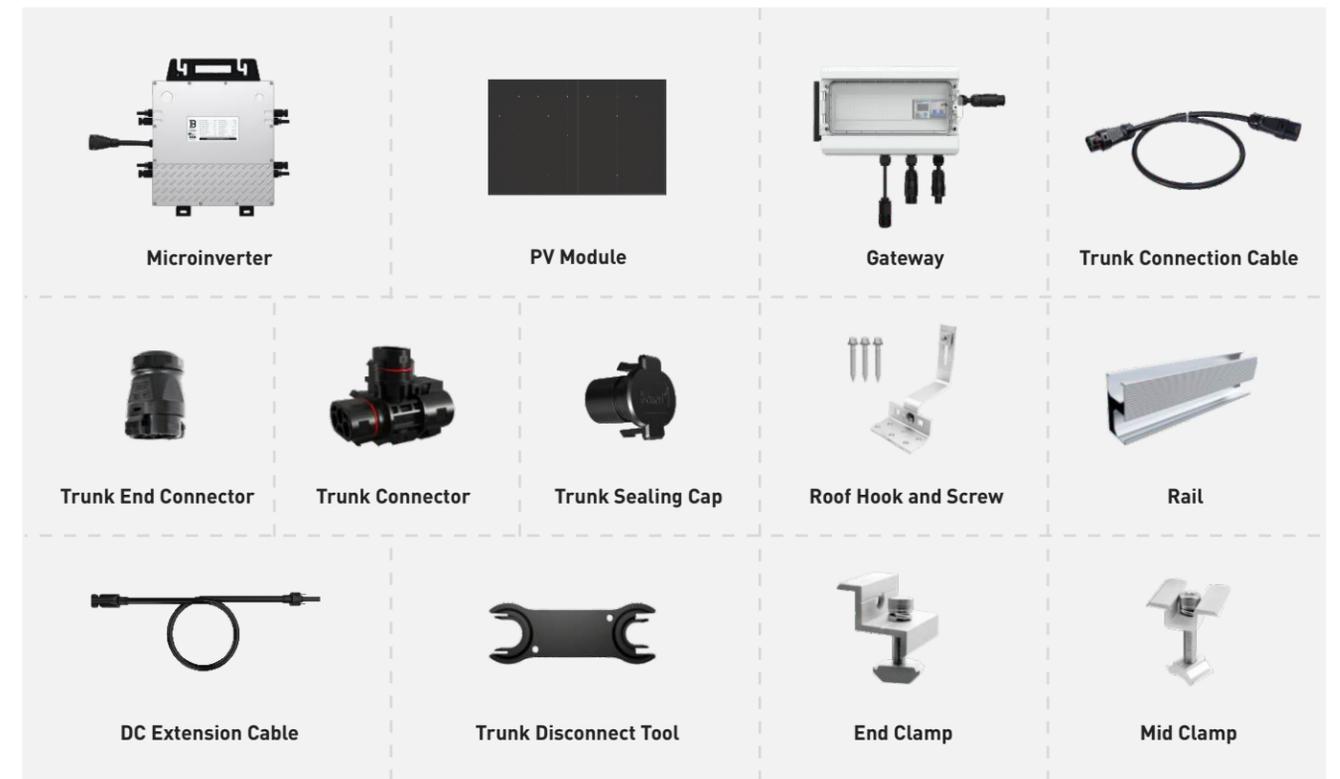
Rooftop Solar PV System

The Easy Solar Kit offers a one-stop solution by integrating PV modules, microinverters, accessories, and gateways, making it perfect for open spaces like rooftops. It significantly reduces energy bills and promotes energy independence with a sustainable, eco-friendly power source.

Highlights

- Independent MPPTs for maximum power generation
- Easy capacity expansion if power consumption increases
- Low operating voltage up to 60Vdc with ZERO DC arc fire risks
- Connection with multiple PV modules, perfectly balancing cost and efficiency
- Intuitive and efficient energy management by web platform and mobile app
- Up to 25-year warranty time for peace of mind

One-stop Solutions



Global Cases

The image features a central map of Europe with red location pins and labels for the following countries: United Kingdom, Germany, Czech Republic, Slovakia, France, Switzerland, Austria, Italy, and Spain. Each country label is accompanied by a small inset photograph showing a residential solar panel installation. Surrounding the map are larger, detailed photographs of various solar panel setups, including roof-mounted arrays, balcony-mounted systems, and ground-mounted panels. The photos illustrate different mounting styles and the integration of solar technology into diverse residential environments across Europe.

Micro Energy System