

ZBENY

www.beny.com

01.

About BENY

Company Profile:

Global-Leading New Energy Solution Provider

BENY New Energy is a global leader in the new energy industry, known for its innovation and 30+ years of industry experience. It provides **one-stop solutions** integrating PV power generation, energy storage, and EV charging.

BENY ensures safe and reliable PV power transmission and distribution by developing comprehensive **PV protective components** like isolator switches, surge protectors, circuit breakers, and combiner boxes. It also specializes in residential and C&I power systems, including **microinverters and energy storage systems** for various applications, as well as **EV charging solutions** with both AC and DC options.

Through its commitment to delivering safe and efficient solutions, BENY has gained the trust of top-tier new energy companies like Sungrow, CHINT, CATL, GoodWe, and ABB, establishing **long-term partnerships**. BENY's dedication to quality has earned its products certifications such as **CE, CB, UL, SunSpec, and RoHS**. It also establishes a strategic partnership with **TÜV Rheinland**, solidifying its excellent reputation in the industry.



Company Advantages: Experienced, Innovative and Promised Service



30+ Years of Experience



2+ Million Successful Projects



100+ Countries/Regions Covered



100+ Self-developed Patents

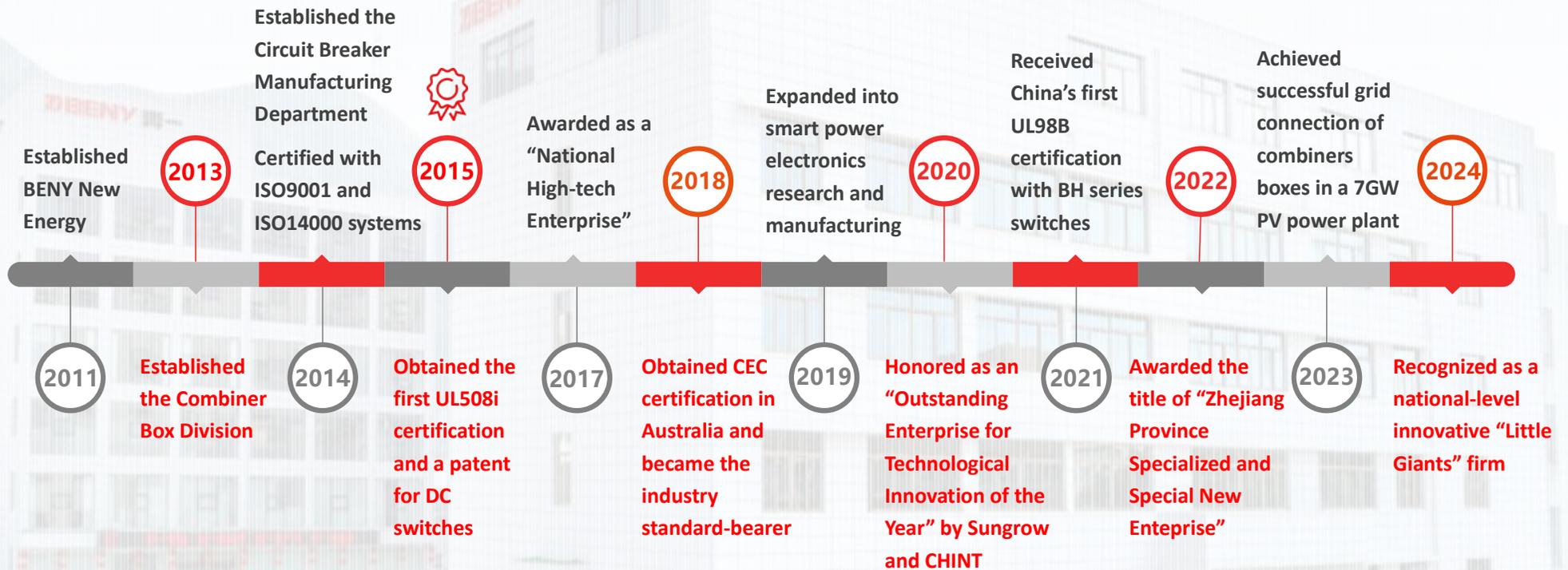


20+ Million Annual Production Capacity



12% of Revenue Dedicated to R&D

Development History: New Energy Industry Expert with Decades of Experience



The logo for BENY, featuring a stylized 'Z' symbol followed by the word 'BENY' in a bold, sans-serif font.

Manufacturing Base: Reliable and Solid Supply Capability

Located in Wenzhou, China. Covering an area of over **40,000** square meters. With an investment of **30** million USD, it generates an output value exceeding **80** million USD annually.



WENZHOU BRIDGE INDUSTRIAL ZONE, BEIBAIXIANG TOWN, ZHEJIANG, CHINA
TEL: +86-577-5717 7008 FAX: +86-577-5717 7007

ZHEJIANG BENYI NEW ENERGY CO.,LTD.

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Manufacturing Reliability: High-Tech & Automatic Production Line

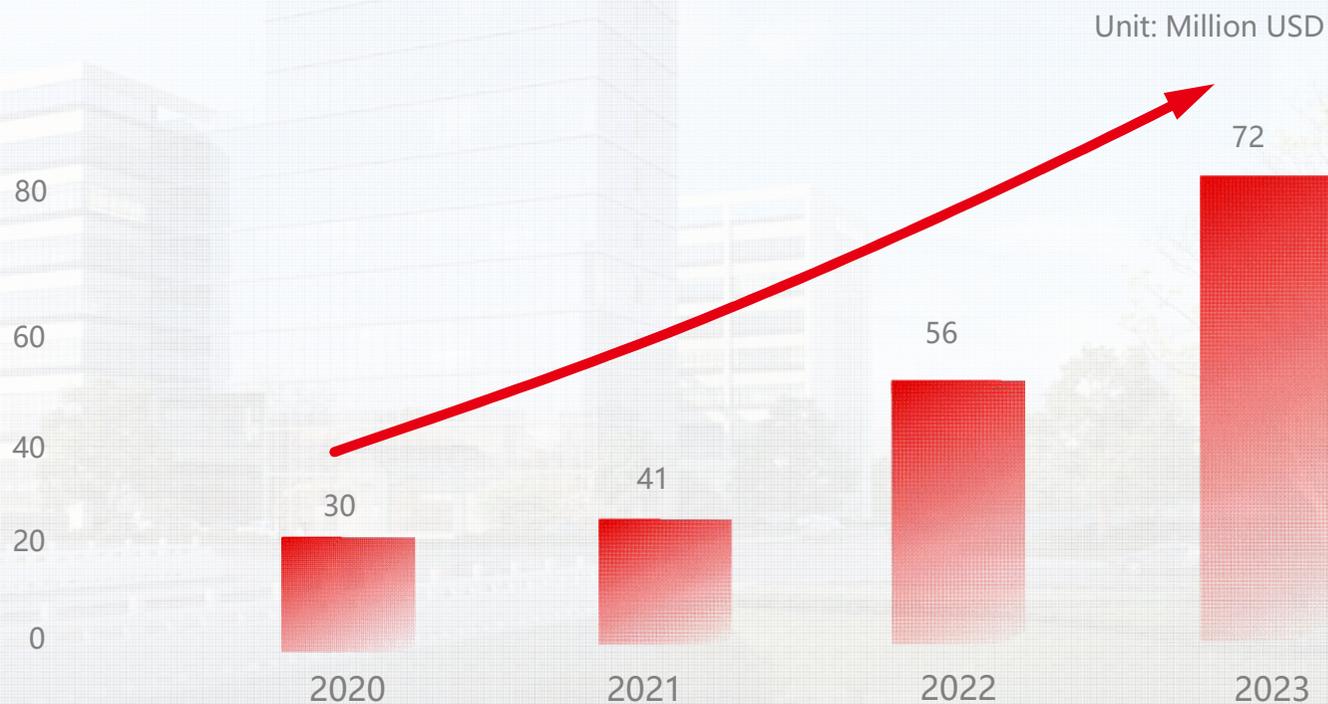


SMT Chip Mounting Machine



Independent R&D Capability: 12% of Revenue for R&D Investment

- National high-tech enterprise
- National-level "Little Giant" enterprise
- Zhejiang high-tech enterprise and R&D center
- Zhejiang provincial specialized and special new enterprise



Powerful R&D Capability: 100+ Self-Developed Patents



Reliable Quality: Fully Certified and Establish Strategic Partnership with TÜV Rheinland



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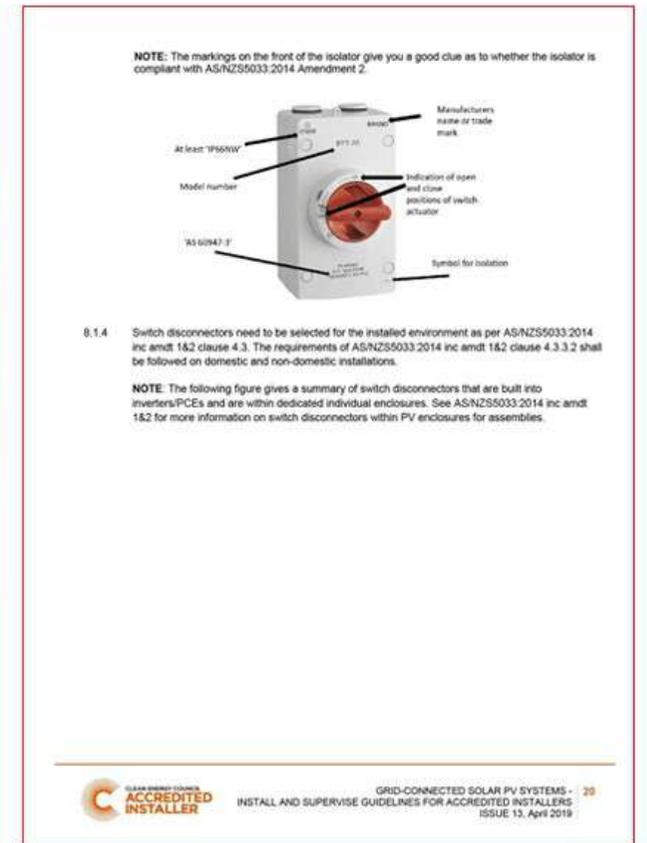
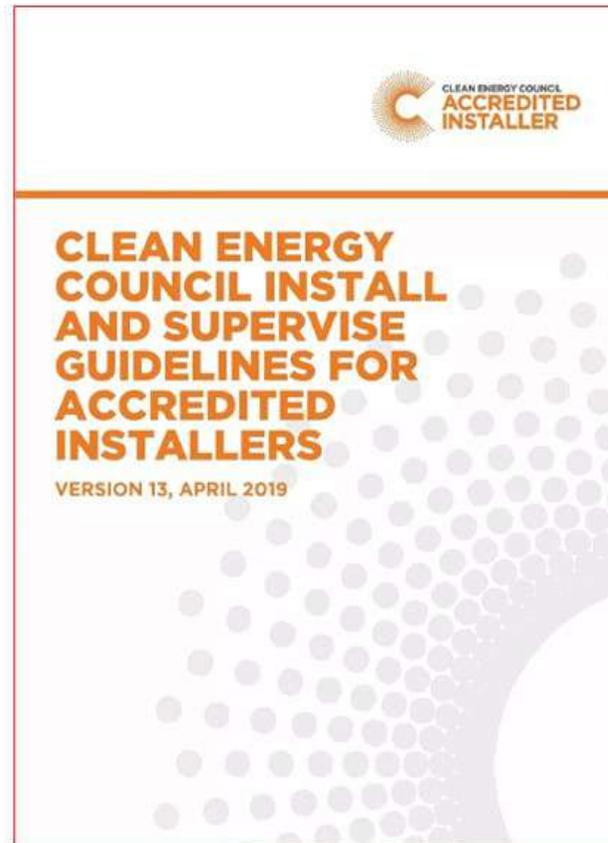
Reliable Quality:

Obtained China's FIRST UL98B Certification in The United States with BH Series Switches



Reliable Quality:

Obtained CEC Certification in Australia and Became the Industry Standard-Bearer





Leading in New Energy Solutions

TOP BRAND PV INVERTERS

EuPD Research



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BENY New Energy

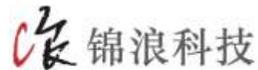


Reliable Components:
Partner with Top-Tier Suppliers

100% of products will go through stringent tests before shipment



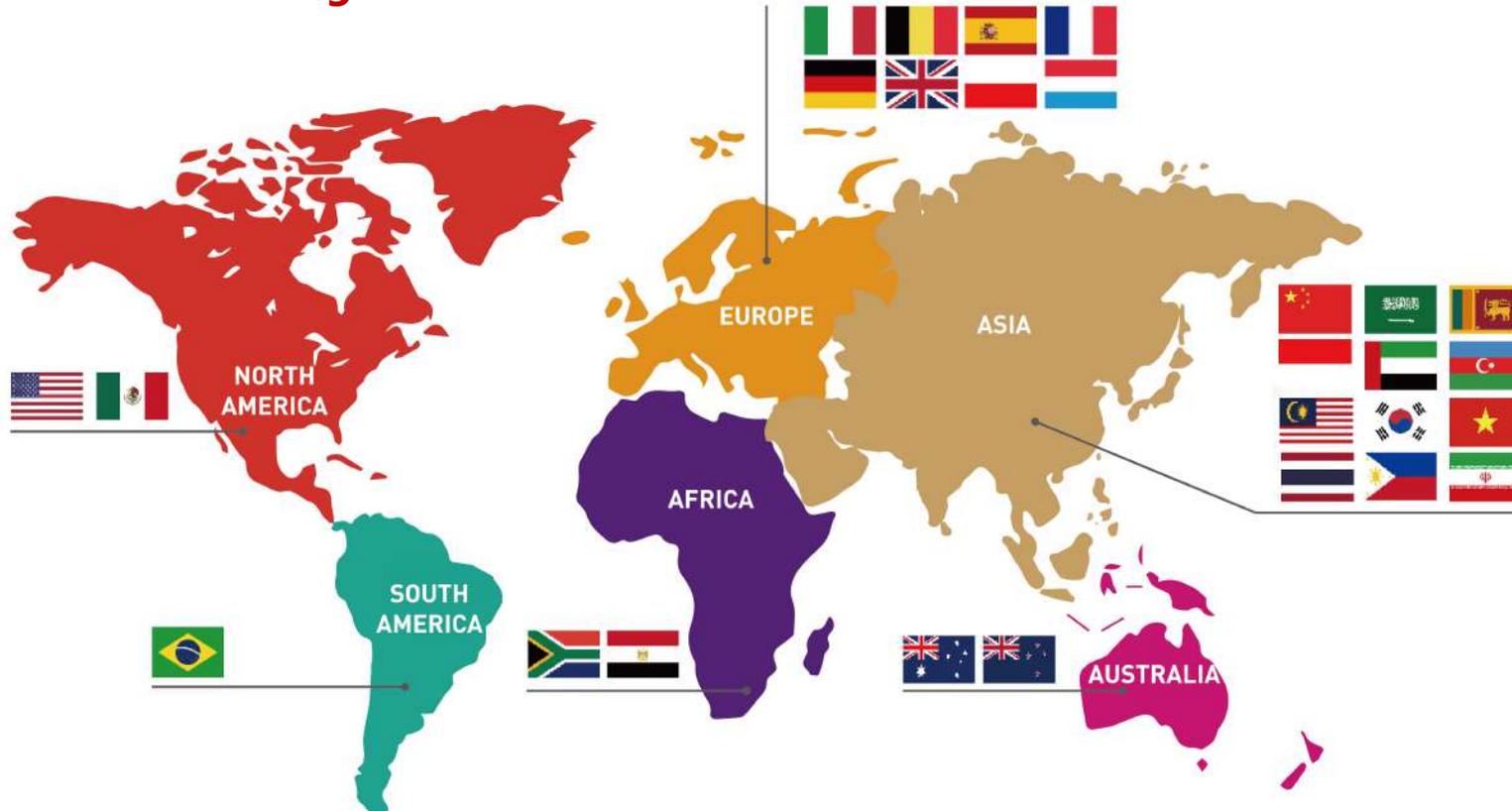
Long-Term Partnerships with **Asia-Leading Partners:**



Long-Term Partnerships with **Global-Leading Partners:**



Global Market Reach:
Cover 100+ Countries & Regions



ZBENY 奔一

— 引领新能源输配电系统创新发展 —

INDEPENDENT TUV CE STANDARD QUALITY CONTROL AND TESTING DEPARTMENTS

ZBENY



 **TÜVRheinland®**
Precisely Right.



02. Solutions.



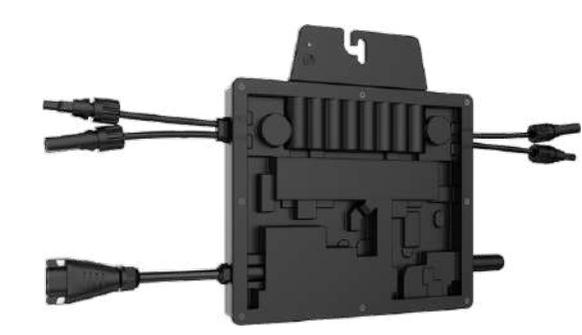
Microinverter



BYM 500W-600W



BYM 700W-800W



BYM 1000W-1200W



BYM 2000W-2800W

Features of Beny microinverter

- Max short circuit current: 20A
- Max continuous current: 18A
- Supports PV models: 210W to 2800W
- Service life: up to 25 years
- Unparalleled temperature adaptability
- High-standard manufacturing with IP67 protection
- Compatible with mainstream PV modules
- Quick connectivity with MC4 connectors
- Parallel usage with pre-assembled AC cable
- Direct WiFi connection, no additional data collector needed
- Enhanced security and online monitoring
- Universal web and app support





Model	BYM500/550/600	BYM800	BYM1000/1200	BYM2000/2400/2800
Peak efficiency	96.5%		97.5%	
Mppt efficiency	>99.8%			
Night power consumption	<100mW			
Communication method	PLCC/Wi-Fi(Optional)			
Operating temperature	-40°C to +70°C			
Safety protection	Class I			
Warranty period	12/25 years(Optional)			
Dimensions(L*W*H mm)	210*230*34	268.5*215*40	272.9*260.9*34.5	389*302*43
Weight(kg)	2.39	3.6	3.7	7.45

Model	BYM500/550/600			BYM800	BYM1000/1200		BYM2000/2400/2800		
Mppt voltage range	24V~50V								
Operating voltage range	16V~60V								
Maximum input voltage	60V								
Maximum short circuit current	20A	24A	30A*1/20A*2	20A*2		20A*4		24A*4	
Maximum input current	18A	20A	26A*1/13A*2	18A*2		18A*4		20A*4	
Rated output power	500W	550W	600W	800W	1000W	1200W	2000W	2400W	2800W
Maximum output power	520VA	570VA	600VA	800VA	1000VA	1200VA	2000VA	2400VA	2800VA
	Vac≥230V Vmp≥34V	Vac≥230V Vmp≥35V	Vac≥220V Vmp≥33V	Vac≥230V Vmp≥35V	Vac≥230V Vmp≥34V	Vac≥230V Vmp≥36V	Vac≥230V Vmp≥34V		
Rated voltage(range)	230V(176V~265V)								
Maximum continuous output current	2.27A	2.5A	2.73A	3.64A	4.55A	5.45A	9.7A	11A	12.8A
Rated frequency(range)	50Hz/60Hz(46.5Hz~62Hz)								
Maximum continuous output current	2.27A	2.5A	2.73A	3.64A	4.55A	5.45A		9.7A	11A
Maximum connection in one string (PLCC) [30A circuit breaker,10AWG cable]	12units	13units	10units	8units	6units	5units	3units	2units	2units
Maximum connection in one string (Wi-Fi) [40A circuit breaker,10AWG cable]	17units	16units	14units	10units	8units	7units	4units	3units	3units

Accessories



Gateway BYR2000



Filter * 1



BYG2000-8S



DC extension cable



Disconnect tool A



Endcap 05CML-M



T-connector BC05C



AC End cable

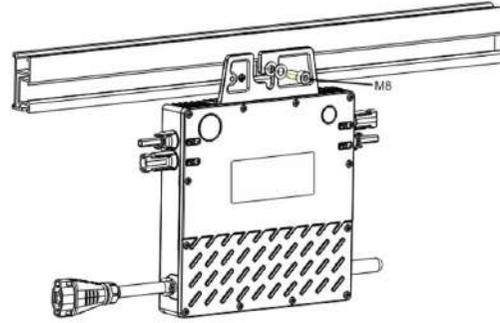


AC trunk cable



Disconnect tool B

Installation process

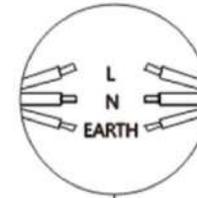


1 Fixture of Micro inverter on the rack

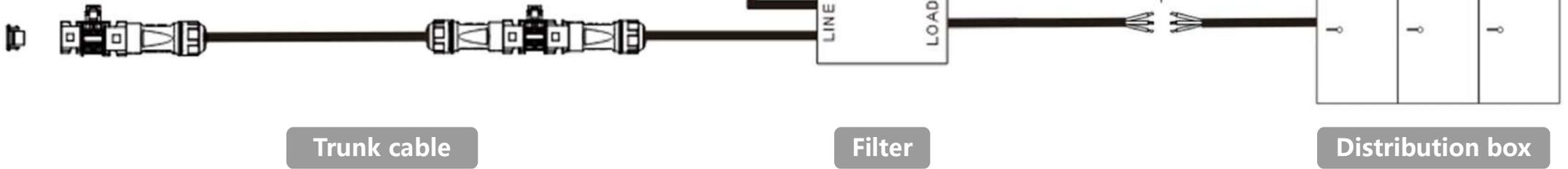
4 Mount filter onto the truck cables



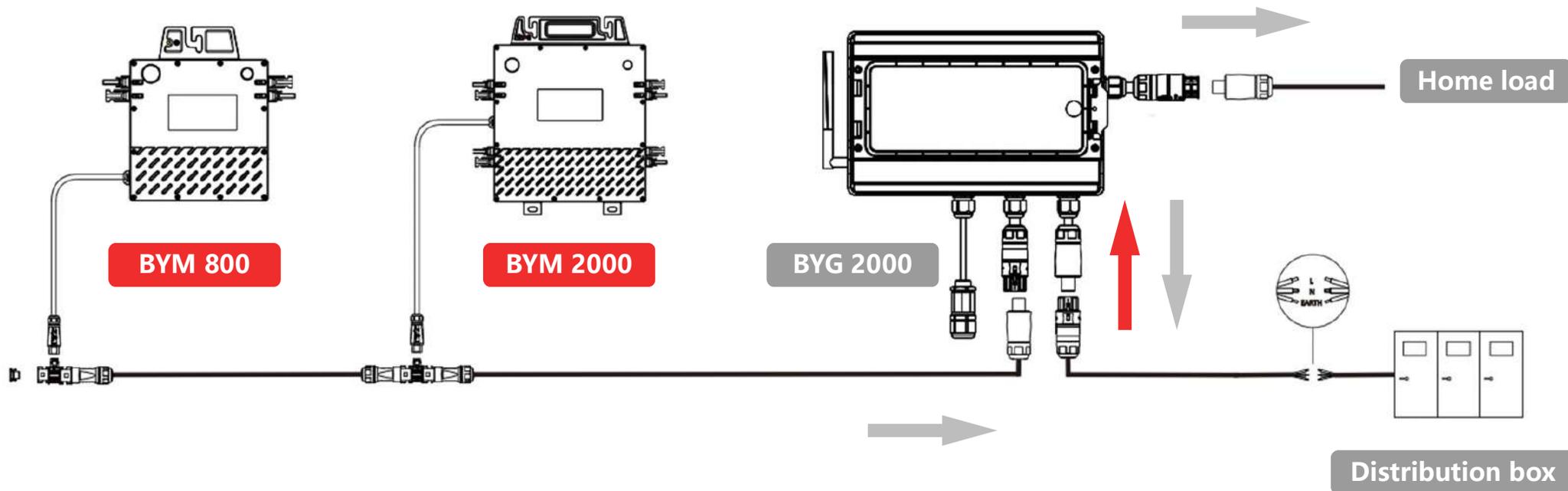
3 Mount filter onto the gateway unit



2 Mount filter onto distribution box



Zero export solution



Rooftop system



Module Type	SKT550M10	
Testing Condition	STC	NMOT
Maximum Power (Pmax/W)	550	411.1
Maximum Power Current (Imp/A)	13.12	10.51
Maximum Power Voltage (Vmp/V)	41.93	39.14
Short-circuit Current (Isc/A)	13.99	11.29
Open-circuit Voltage (Voc/V)	49.80	46.82

STC : Radiation 1000 W/m², Module temp. 25°C, AM = 1.5

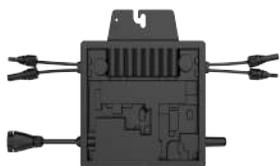
NMOT: Radiation 800 W/m², Ambient temp. 20°C, AM=1.5, Wind 1m/s



For a 5.5KW project



BYM2000(Wi-Fi) * 2



BYM1000(Wi-Fi) * 1



PV module * 10



DC extension cable * 20



05CMTOL * 1



05CML-M * 1



0BC05C-T * 3



AC trunk cable * 2



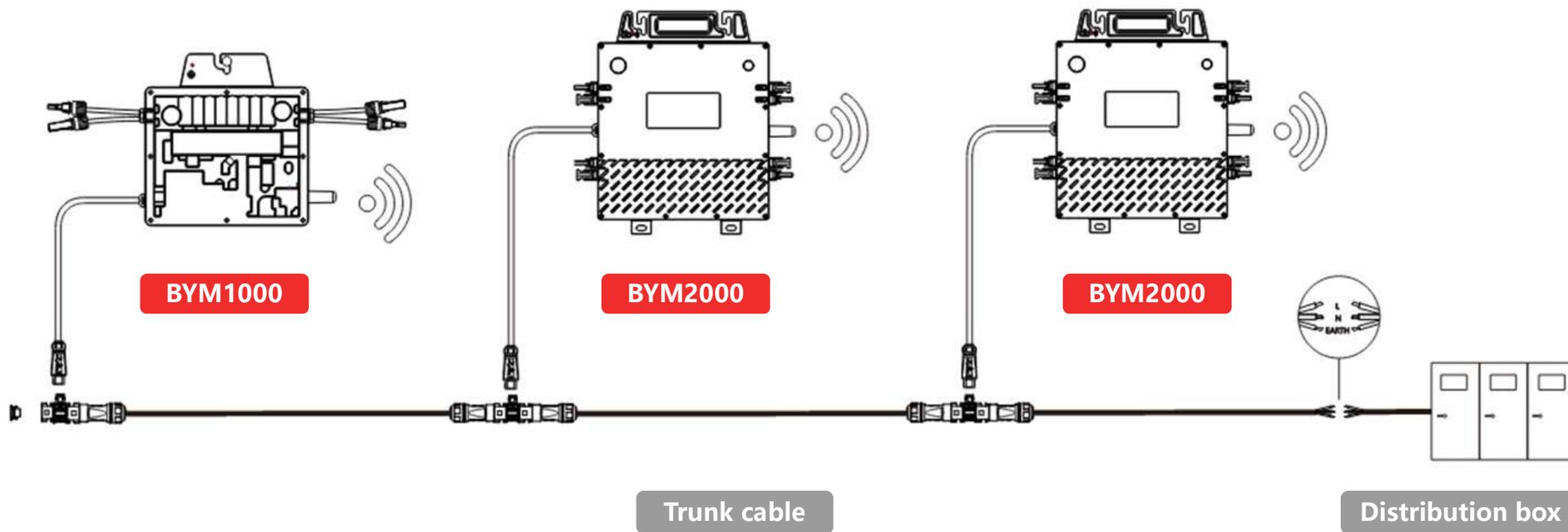
AC End cable * 1



MLBLRTOL * 1

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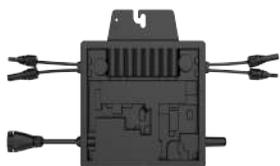
For a 5.5KW project



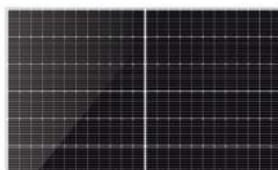
For a 16.5KW project



BYM2000(Wi-Fi) * 6



BYM1000(Wi-Fi) * 3



PV module * 30



DC extension cable * 60



05CMTOL * 1



05CML-M * 3



0BC05C-T * 9



AC trunk cable * 6



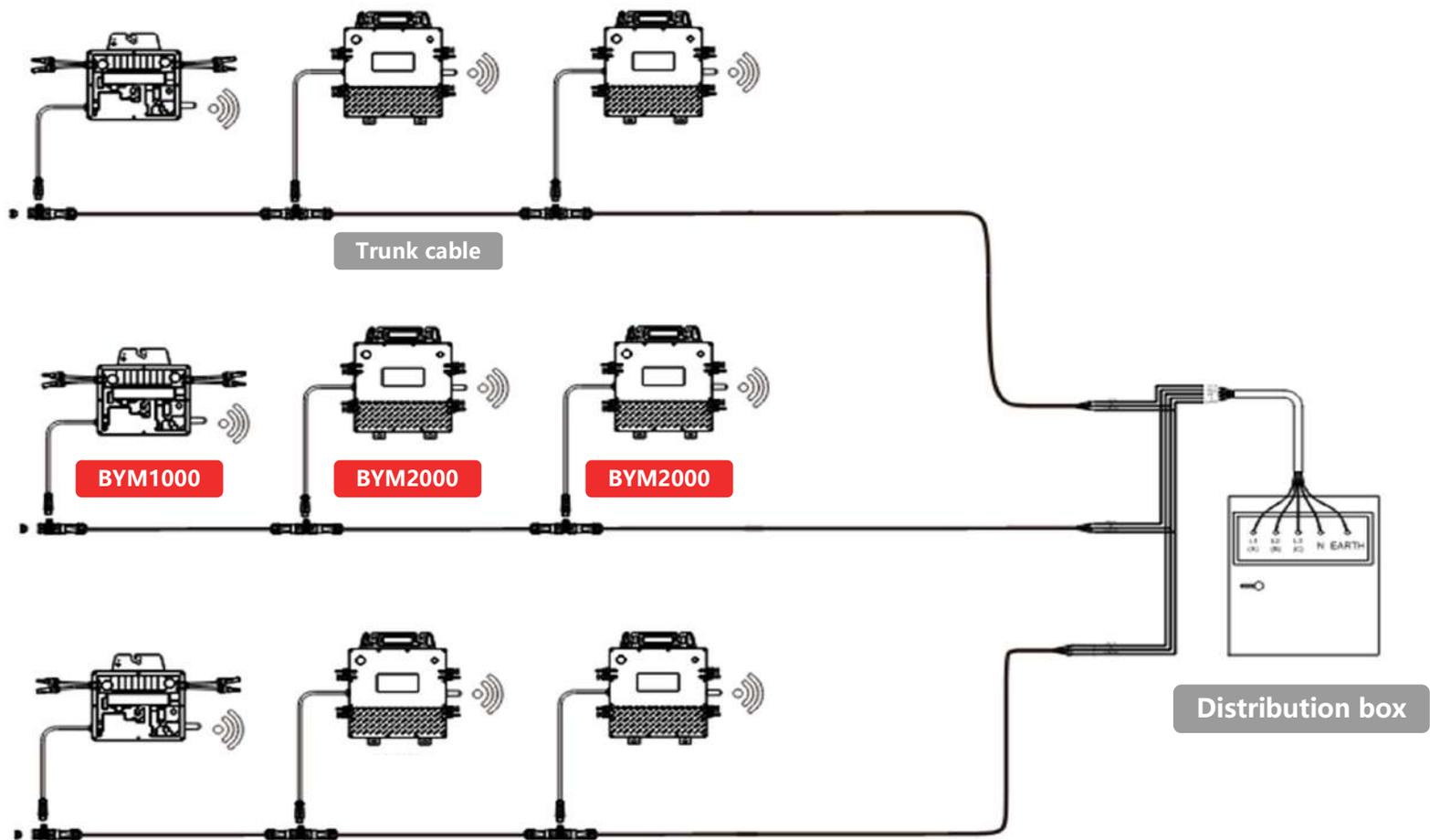
AC End cable * 3



MLBLRTOL * 1

BENY

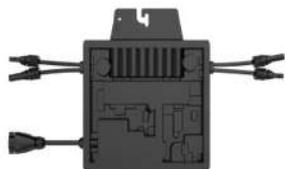
For a 16.5KW project



For a 16.5KW project



BYM2000(PLC) * 6



BYM1000(PLC) * 3



PV module * 30



DC extension cable * 60



05CMTOL * 1



05CML-M * 3



0BC05C-T * 9



AC trunk cable * 6

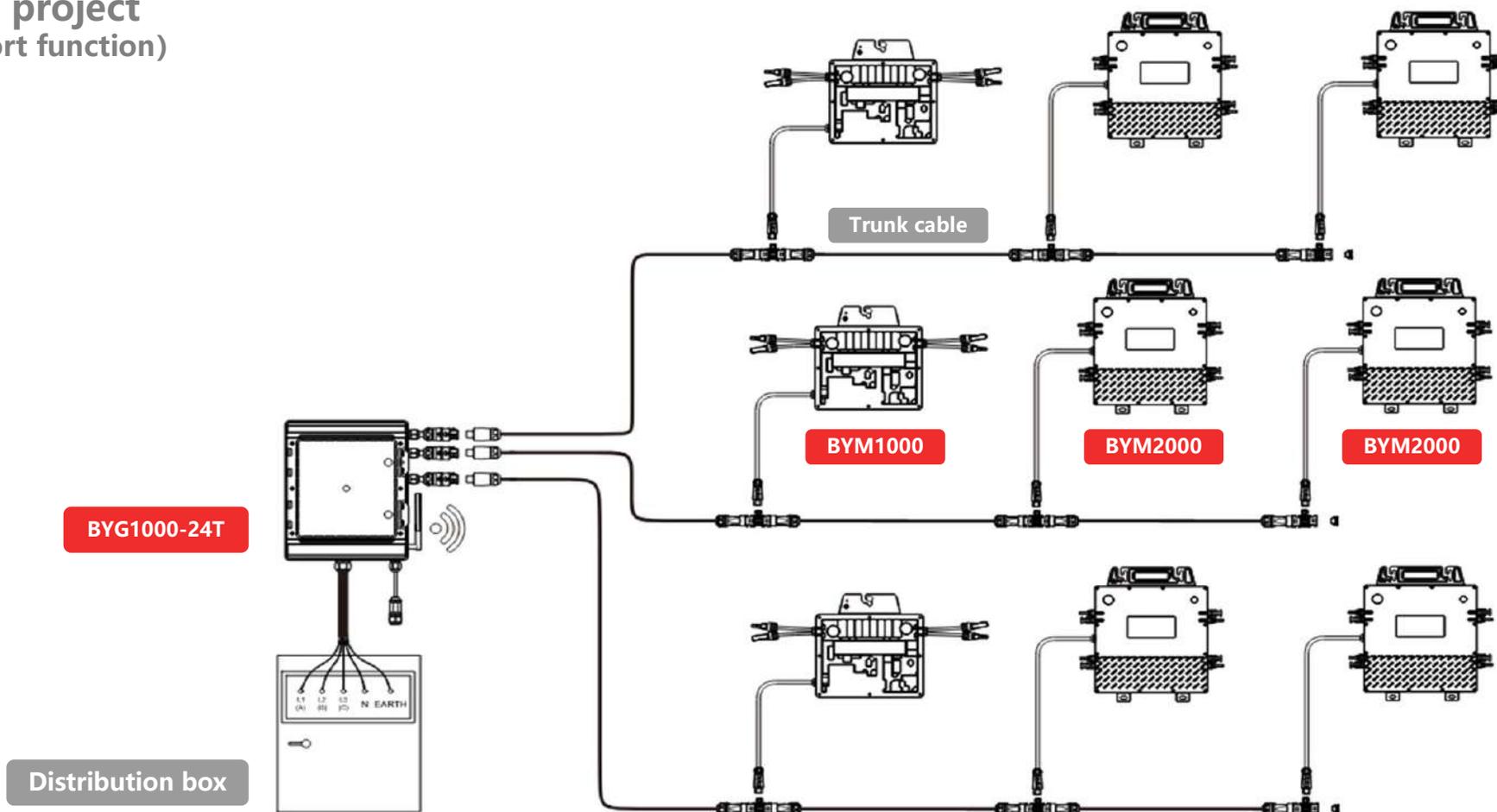


AC End cable * 3



MLBLRTOL * 1

For a 16.5KW project (with Zero-export function)



Balcony system



Module Type	DM425M10T-B54HST/HBT	
Testing Condition	STC	NMOT
Maximum Power (Pmax/W)	425	320
Maximum Power Current (Imp/A)	13.20	10.59
Maximum Power Voltage (Vmp/V)	32.21	30.20
Short-circuit Current (Isc/A)	13.83	11.16
Open-circuit Voltage (Voc/V)	38.58	36.65

STC : Radiation 1000 W/m², Module temp. 25°C, AM = 1.5

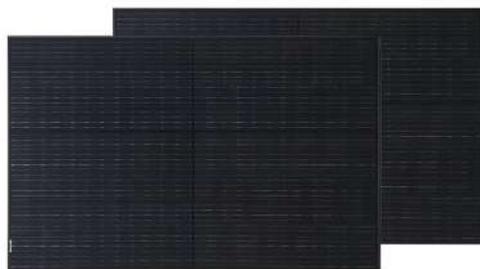
NMOT: Radiation 800 W/m², Ambient temp. 20°C, AM=1.5, Wind 1m/s

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For a 600W project



BYM600(Wi-Fi) * 1



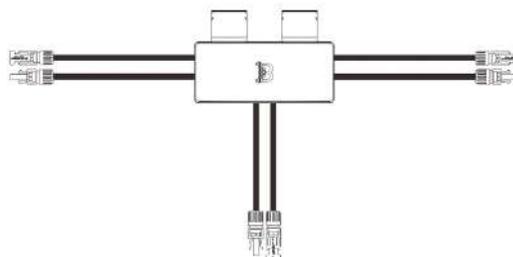
PV module * 2



AC EU plug cable * 2



System bracket * 2



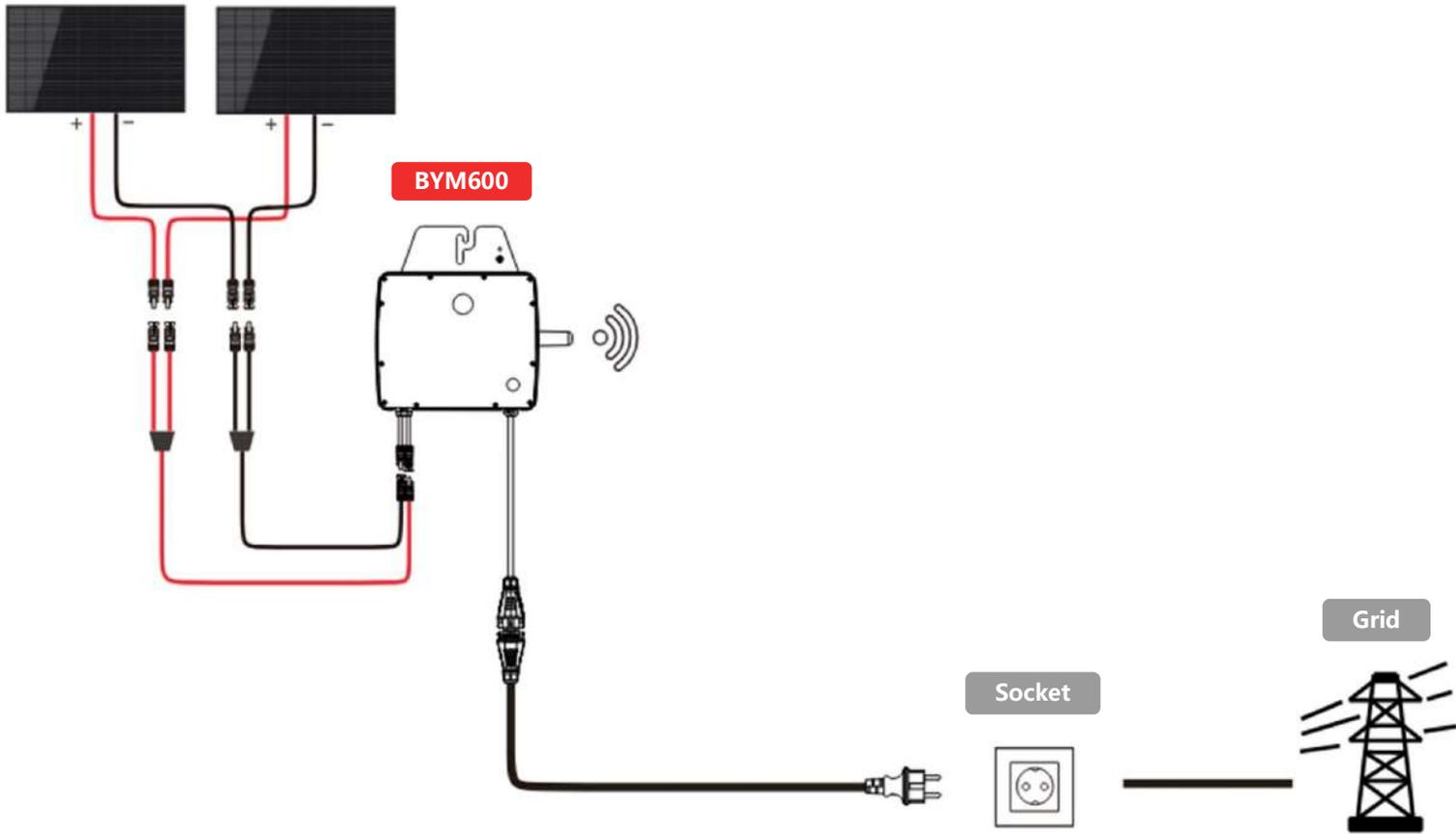
BYPO-2 * optional



MC4 Y-connector * 2



For a 600W project



BENY

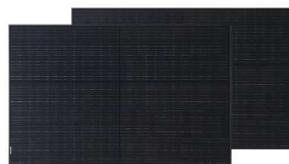
For a 800W project



BYM800(Wi-Fi) * 1



OPS2500 battery * 1



PV module * 2



System bracket * 2



05CMTOL * 1



05CML-M * 1



0BC05C-T * 1



AC EU plug cable * 1



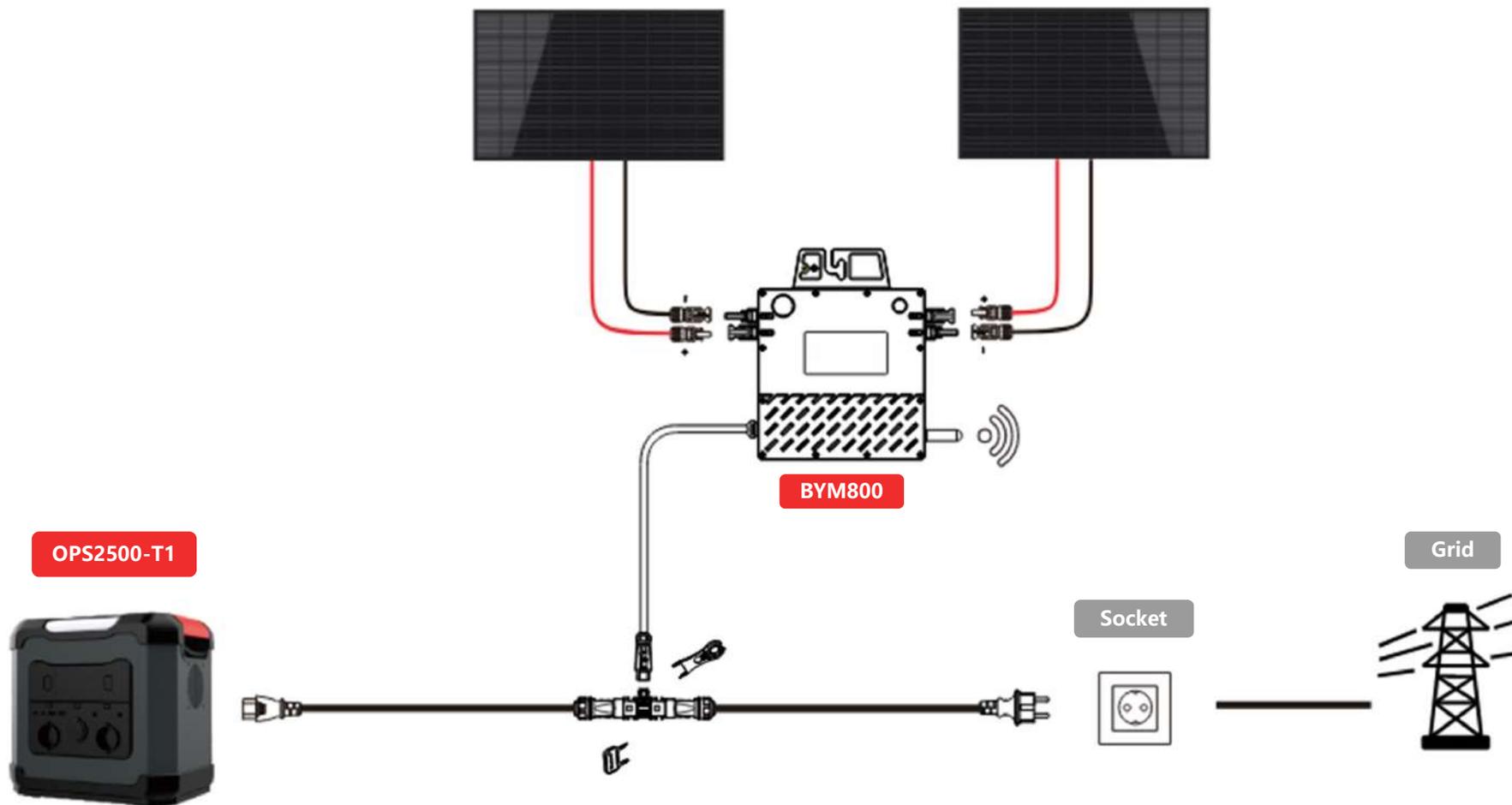
AC battery cable * 1



MLBLRTOL * 1

BENY

For a 800W project



BENY

Solar kit for balcony and garden

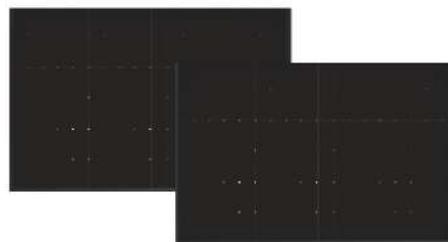


BENY

Solar kit for balcony



Micro-inverter: **BYM-600(wifi)**



PV module: **320~360W**



AC plug cable: **BC05A-EUplug-1.5mm²-5m**



Y type connector: **BBY-1000V-M/F**



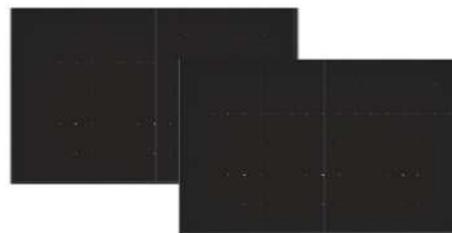
Bracket for balcony set

BENY

Solar kit for balcony



Micro-inverter: **BYM-800(wifi)**



PV module: **420~480W**



AC plug cable: **BC05A-EUplug-1.5mm²-5m**



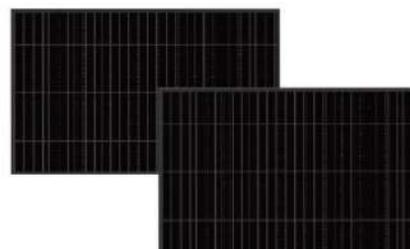
Bracket for balcony set

BENY

Solar kit for garden



Micro-inverter: **BYM-800(wifi)**



PV module: **430~480W**



AC plug cable: **BC05A-EUplug-1.5mm²-5m**



Smart bracket for garden set

BENY

Solar kit for garden



Micro-inverter: **BYM-500(wifi)**



PV module: **530~580W**

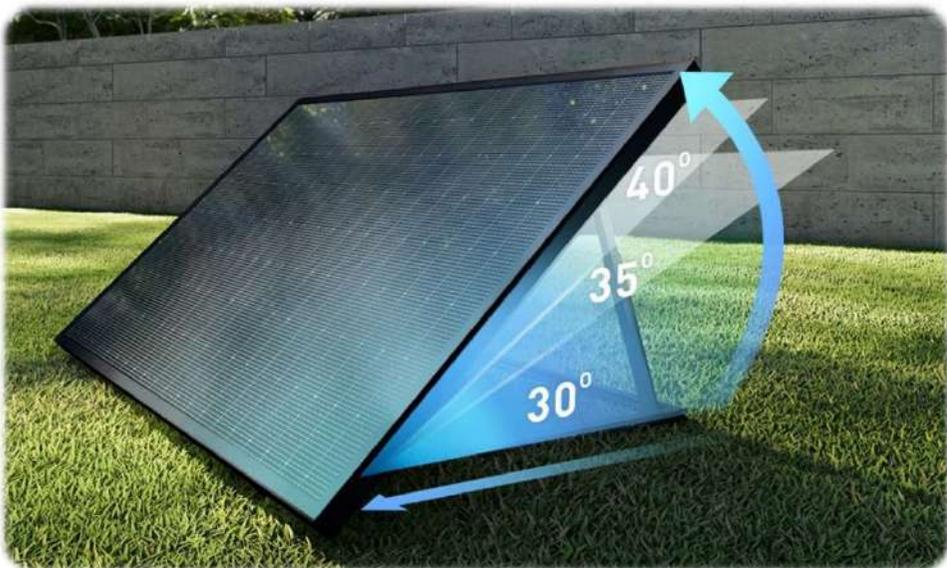


AC plug cable: **BC05A-EUplug-1.5mm²-5m**



Smart bracket for garden set

Features of Beny solar kit



Flexibility in height adjustment



Flexibility in smart monitoring

BENY

EV Charger



Portable EV Charger
3.7KW-22KW



Dual Socket EV Charger
1-Phase 7.4kW
3-Phase 22kW



Wall-mounted
DC EV Charging
Station
20KW-40KW



EV Charger for Smart Home
and Commercial
7.4KW-22KW



3 Guns DC EV Charging
Station 28KW-262KW

Features of Beny EV charger



DC EV Charger



AC EV Charger

Secure and Safe:

Safety Assurance:
Anti-Welding Protection:

Innovativeness:

Ergonomic Design:
Versatile Options:

Smarter Charging:

Multiple Communication Support:
Scheduled Charging via App:
Load Balancing System Control:
PV Compatibility:

Flexible Options:

Multiple Choices:
Convenient Operations
All Colors Options:



PowerEasy Series



Massive Capacity

Ideal match for 600/800W microinverters with its 2.15kWh capacity



1500W MPPT Input

Unmatched MPPT input, standing out from other brands



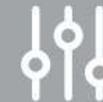
Unmatched Durability

6000-cycle LFP battery and an exceptional lifespan of up to 10 years



High Compatibility

Match with 99% of balcony solar system and seamlessly integrating with current setup



Smart Control

Maximize power potential with a smart app for remote monitoring, control, and upgrades



Easy Installation

Plug&play design, ready to work seamlessly

Residential Energy Storage System



PowerSmart Solo Series



High Safety

Full protection of software and hardware

Super Heat Dissipation

Large heat dissipation area, natural cooling system

High Compatibility

Compatible with multi-brand and multi-model inverters

Up to 15 Layers

Support up to 15 layers of arbitrary stacking

Easy Installation

Simple installation to save time and costs

90% DOD

High depth of discharge for full energy use

High Quality

Automatic laser production line, stable and reliable product quality

Safe and Reliable

Lithium iron phosphate battery

Wide Applications

Suitable for residential scenarios, especially houses with solar systems

Residential Energy Storage System

PowerSmart Solo+ (Stack)

Simple Installation

Plug&play for quick and easy installation

Easy Wiring

No external wiring, less installation time

High Efficiency

Supports a continuous charge/discharge current of up to 51A

Flexible Expansion

Modular design for on-demand scalability, adapting to various scenarios

Full Protection

Real-time monitoring and battery module-level fire protection

Safe and Reliable

Lithium iron phosphate cells with IP65

Powerful and Compact

Up to 24kWh of energy storage with a high energy density of 168Wh/kg



Residential Energy Storage System

PowerSmart Solo+ (Rack)

BMS Technology

Precise measurement of cell voltage and temperature with passive balancing control

Efficient and Durable

Innovative technology ensures optimal battery system operation

Easy Expansion

Supports 3-10 battery strings in series for flexible configuration

Highly Compatible

Works with multiple inverter brands, offering a wide range of choices

Safe and Reliable

Premium-grade lithium iron phosphate cells with long cycle life and pack-level fire protection

Easy Installation and Maintenance

Modular design enables convenient delivery and maintenance



Residential Energy Storage System

PowerPro Air Series



Air Cooling C&I Energy Storage System

This product features a prefabricated cabin design, allowing for flexible deployment and easy transportation without the need for internal wiring or debugging. It supports functions such as peak shaving, capacity expansion, emergency backup, load balancing, and multi-level parallel connection.



Standard Design

Modular "All-In-One" integrated single cabinet design for ease of transportation, convenient shipping, and straightforward maintenance.



High Safety

Multi-level fire protection system, graded isolation with interlocking safeguards, ensuring the secure and stable operation of the product.



Intelligent and Efficient

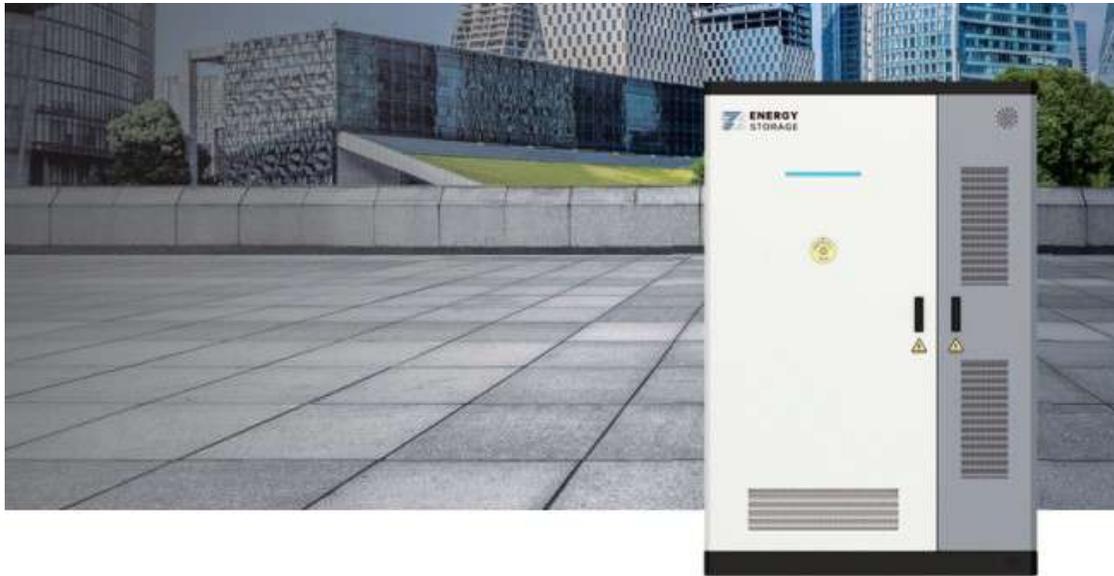
Mature energy management strategies and equipment control, intelligent operation and maintenance, remote control to maximize the product's value.



Flexible and Easy to Install

Supports multi-level parallel connection, bottom busbar design, maximizing land space utilization.

PowerPro Liquid Series



Liquid Cooling C&I Energy Storage System

This product features a prefabricated cabin design, allowing for flexible deployment and easy transportation without the need for internal wiring or debugging. It supports functions such as peak shaving, capacity expansion, emergency backup, load balancing, and multi-level parallel connection.



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Intelligent and Efficient

Mature energy management strategies and equipment control, intelligent operation and maintenance, remote control to maximize the product's value.



Flexible and Easy to Install

Supports multi-level parallel connection, bottom busbar design, maximizing land space utilization.

PowerPro Solar Series



Inverter-Integrated C&I Energy Storage System

It features an "All-in-One" design, integrating a hybrid inverter, battery, and protection systems. To better meet user demands, it features flexible deployment, intelligent power management, and efficient energy conversion, offering multiple operation modes, protection features, and wide applications.



Standard Design

Modular "All-In-One" integrated design, support for multi-stage parallel connection, integrated transport, convenient loading and easy operation and maintenance.



Intelligent Dispatch

Multiple operation modes, mature energy management strategies and equipment control, intelligent operation and maintenance, remote control to achieve maximum product value.



High Safety

Multiple protection mechanisms, such as overtemperature, overload, over-voltage, over-current, etc., to ensure the safety and stability of system operation.



Multi-mode

Support PV direct access, Diesel generator interfaces, support and off-grid automatic switching, can meet most of the application of optical storage solutions.

PowerMaster Air Series



Air Cooling Containerized Energy Storage System

With an "All-in-One" design that integrates batteries, BMS, PCS, EMS, fire protection, and air conditioning, it enables flexible deployment, fast response, high reliability, and supports peak shaving, capacity expansion, and backup power.



Safe and reliable

IP55 protection grade design, cluster level aerosol layout, BMS and AC/DC multi-layer protection Settings to ensure the safe operation of the system;



Cost optimization

Small size, light weight, save floor space and installation costs, can be pre-installed whole system transportation, long life, low failure rate. low operation and maintenance costs;



Efficient and convenient

Batteries, PCS, etc, all adopt modular design for easy installation and transportation, and can remotely guide configuration, equipment management, data analysis, fault prediction, etc.



Rich scene

Application strategies can be customized in different environments to meet product requirements;

PowerMaster Liquid Series



Liquid Cooling Containerized Energy Storage System

With an "All-in-One" design that integrates batteries, BMS, EMS, and fire protection system, it enables flexible deployment, fast response, high reliability, and supports peak shaving, capacity expansion, and backup power.



Safe and reliable

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Rich scene

Application strategies can be customized in different environments to meet product requirements;



Rapid Shutdown Device



BFS-A1



BFS-A2



BFS-S

Features of BFS-S

- IP66 Aluminum Case
 - IEC and UL listed DC switch build-in.
 - Original MC4 plug and play.
 - Real-time temperature sensor for automatic cutoff above 85°C.
 - CE certified, max String voltage: 1500VDC; Max String Current: 50A
 - String level, the most cost-effective solution.
- Wide operating temperature range: -20°C to +50°C



Electrical Components



DC Disconnect Switch



DC Mini Circuit



DC SPD Type1+2



DC SPD Type2



BYSS

BENY

DC Disconnect Switch 1000V 250A BH-250 IEC

- Use category: DC-PV2
- Application fields: · Photovoltaic combiner box · Inverter
- 2 pole single load 1500V 250A ,400A
- Executive standard: · IEC60947-3 · UL98B



■ Clean Energy For Home

www.beny.com