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Version number 02

OEM ODM SKD





Manufacturing Strength



SMT Workshop



Assembly Workshop



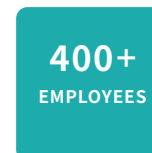
ATE Testing



Aging Test Workshop

About Yeyanghong

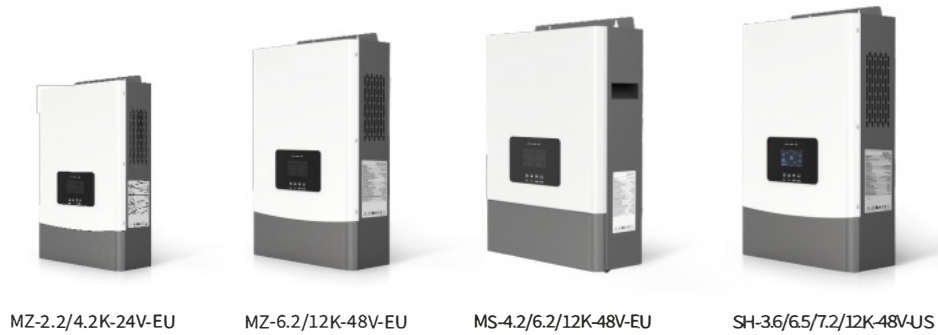
Guangdong Yeyanghong Energy Technology Co., Ltd. is one of the most experienced and largest manufacturers of solar inverters and energy storage systems. we deliver innovative solar solutions by integrating a global supply chain with world-class R & D and manufacturing capabilities. Our products offer superior reliability and have been certified by the most stringent international authorities. Yeyanghong is committed to green energy innovation and dedicated to providing users with a higher-quality, more efficient, and more economical energy experience.



Product Series

INVERTERS

On&Off Grid Inverters



Hybrid Inverters



On Grid Inverters



ALL IN ONE

All-in-one & Stacked

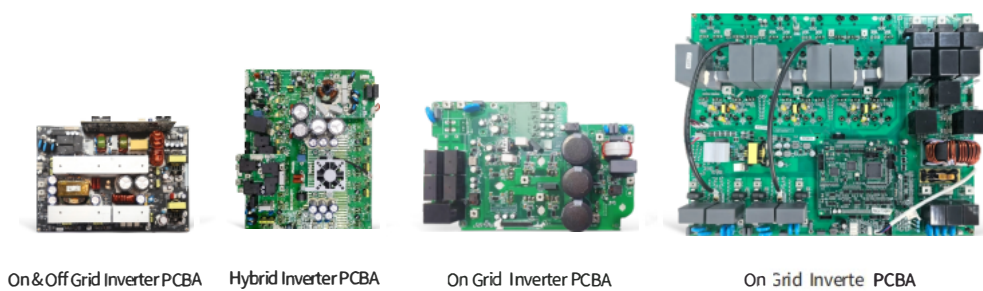


BATTERY

LiFePO₄



PCBA



INVERTERS

On & Off Grid Inverters

EU Standard	1.2-12KW-48V-EU	7-12
US Standard	3.6-12KW-48V-US	13-16

Hybrid Inverters

6-12KW-48V-EU	17-18
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On Grid Inverters

Micro Inverter	800-2000W	23-24
2-5KW-TLS-EU		25-26
36-60KW-TLC-EU		27-28
70-120KW-TLC-EU		29-30
225-320KW-EHV-EU		31-32

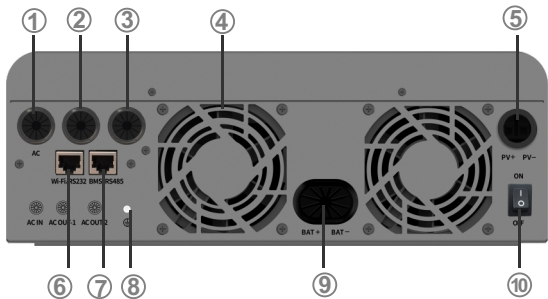


MZ-1.2K-12V-EU MZ-2.2/4.2K-24V-EU

On & Off Grid Inverters

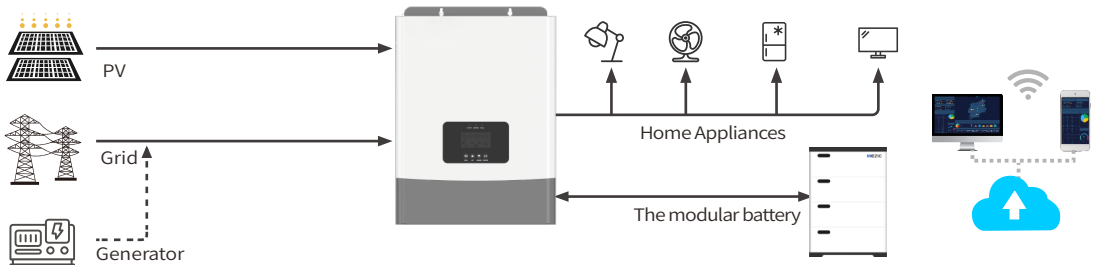
- Features segmented charging and discharging.
- Supports operation without a battery. Solar energy and mains power can supply power to load devices together.
- Equipped with energy-saving mode, reducing no-load losses.
- Offers four charging modes: solar only, mains priority, solar priority, and hybrid charging.
- Provides two output modes: mains bypass and inverter output, and has uninterrupted power supply function.
- Includes complete protection against short-circuit, over-voltage, under-voltage, overload, and backflow, ensuring 360° safety.
- Utilizes fully digital voltage and current dual closed-loop control, advanced SPWM technology, and outputs pure sine waves.
- Enables remote monitoring and management via Wi-Fi or 4G.

Interface Description



- 1. AC/IN connection port
- 2. AC/OUT 1 connection port
- 3. AC/OUT 2 connection port
- 4. Cooling fan
- 5. PV connection port
- 6. Wi-Fi/RS232 communication port
- 7. BMS/RS485 communication port
- 8. Ground terminal
- 9. BAT+ BAT-
- 10. ON/OFF switch

Solar System Connection



Product Specifications

Model	MZ-1.2K-12V-EU	MZ-2.2K-24V-EU	MZ-4.2K-24V-EU	MS-4.2K-24V-EU
Max. Power (W)	1200VA/1200W	2200VA/2200W	4200VA/4200W	
AC Input				
Rated input voltage	230VAC			
Input Voltage	170~280VAC (UPS mode) ; 90~280VAC (APL mode)			
Frequency	50Hz/60Hz (Automatic detection)			
Inverter Output				
Output voltage	230VAC±5%			
Peak power	2000VA	4000VA	8400VA	
Efficiency	90%~93%			
Transfer time	≥10ms			
Output voltage waveform	Pure sine wave			
Battery DATA				
Battery voltage	12VDC	24VDC	24VDC	
Charging Voltage	13.5VDC	27VDC	27VDC	
Battery overvoltage protection value	16VDC	32VDC		
PV & AC Charging				
Solar charging type	MPPT			
Max. input voltage of MPPT	102VDC		500VDC	
MPPT power	500W	1200W	4000W	
MPPT working range	17~80VDC	30~80VDC	120~450VDC	
MPPT charging current	40A		120A	
Charging current of mains power	20A		100A	
Max. charging current	60A		120A	
General Data				
EMC certification level	CE-EMC EN IEC 61000-6-1:2019			
Operating temperature range	-10°C to 55°C			
Storage temperature range	-25°C to 55°C			
Humidity range	5% to 95% (Coating protection)			
Noise	≤60dB			
IP Rating	IP21			IP54
Cooling method	Forced air cooling, intelligent variable speed fan			
Communication interface	RS232/RS485			
Dimensions (L * W * H)	338x120x110mm	338x120x110mm	445x326x116mm	450x356x121mm
Net Weight (kg)	7.0	7.5	7.6	8

EU-Standard 230V

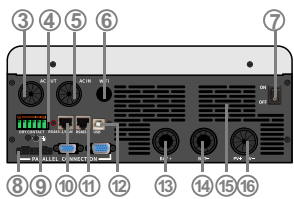
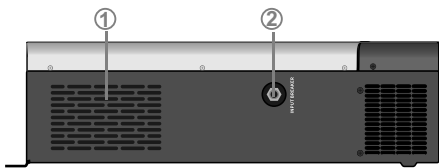


MZ-6.2K-48V-EU SH-12K-48V-EU

On & Off Grid Inverters

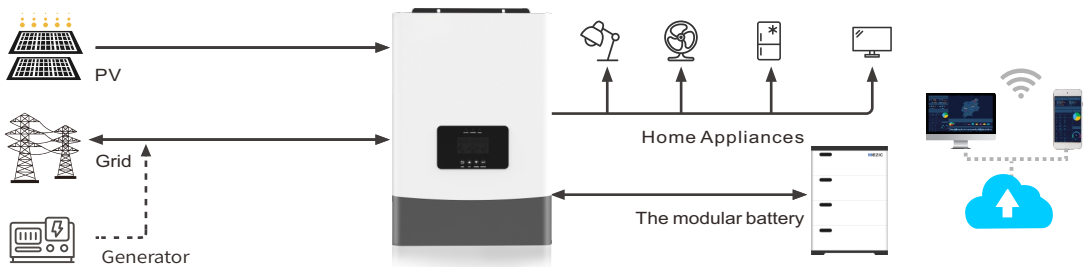
- Features segmented charging and discharging.
- anti-backflow grid connection function (photovoltaic mixed power supply), can set grid connection mode.
- Supports use without battery. Solar energy and mains power can supply power to load devices together.
- Equipped with energy-saving mode functions, reducing no-load losses.
- There are 4 charging modes to choose from: solar only, mains priority, solar priority, and hybrid charging.
- Equipped with dual activation function of lithium battery, it can be triggered by connecting either mains or photovoltaic power source.
- Provides two output modes: mains bypass and inverter output, and has uninterrupted power supply function.
- Includes complete protection against short-circuit, over-voltage, under-voltage, overload, and backflow, ensuring 360° safety.
- Utilizes fully digital voltage and current dual closed-loop control, advanced SPWM technology, and outputting pure sine waves.
- Enables remote monitoring and management via Wi-Fi or 4G.
- Supports PV input up to 18 kW (for the 12 kW model).

Interface Description



- 1. Cooling inlet
- 2. Overload protection
- 3. AC/OUT connection terminal
- 4. Dry contact control
- 5. AC/IN connection terminal
- 6. Wi-Fi dongle interface
- 7. ON/OFF switch
- 8. Parallel connection terminal
- 9. Ground terminal
- 10. RS485 communication port
- 11. RS485 communication port
- 12. USB communication port
- 13. BAT +
- 14. BAT -
- 15. Intelligent cooling fan
- 16. PV connection port

Solar System Connection



Product Specifications

Model	MZ-6.2K-48V-EU	SH-12K-48V-EU
Parallel mode		
Permitted parallel number	1~6	1~6
AC mode		
Rated input voltage	230Vac ±5%	230Vac ±5%
Input voltage range	170~280VAC (UPS mode) ; 90~280VAC (APL mode)	
Frequency	50Hz/60Hz (Auto detection)	
Frequency Range	47±0.3Hz~55±0.3Hz (50Hz); 57±0.3Hz~65±0.3Hz (60Hz);	
Overload/short circuit protection	Circuit breaker	
Efficiency	>93%	
Transfer time	≥10ms	
AC reverse protection	Yes	
Maximum bypass overload current	40A	60A
Inverter mode		
Output voltage waveform	Pure sine wave	
Rated output power (VA/W)	6200VA/6200W	12000VA/12000W
Power factor	1	
Rated output voltage (Vac)	230Vac	
Output voltage error	±5%	
Output frequency range (Hz)	50Hz±0.3Hz/60Hz±0.3Hz	
Maximum Efficiency	>94%	
Overload protection	(102% < load <125%) ±10%: report error and turn off the output after 5 minutes; (125% < load < 150%) ± 10%: report error and turn off the output after 10 seconds; Load >150% ± 10%: report error and turn off the output after 5 seconds;	
Peak power	12000VA	24000VA
Loaded motor capability	4HP	8HP
Bypass circuit breaker specification	40A	63A
Rated battery input voltage	51.2V (Minimum starting voltage 44V)	
Battery voltage range	40Vdc~60Vdc±0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... settable on LCD screen)	
Power saving mode self-consumption	Load≤25W	Load≤50W
AC charging		
Battery type	Lead acid or lithium battery	
Maximum charge current(can be set)	80A	150A
Charge current error	±5Adc	
Charge voltage range	40 ~60Vdc	
Short circuit protection	Circuit breaker and blown fuse	
Circuit breaker specifications	40A	63A
PV charging		
MPPT way	1	2
Maximum PV open circuit voltage	500Vdc	
PV operating voltage range	120Vdc~500Vdc	120Vdc~500Vdc
MPPT voltage range	90Vdc~450Vdc	90Vdc~450Vdc
Battery voltage range	40-60Vdc	
Maximum PV input power	6500W	9000WX2
Maximum PV input current	27A	27A+27A
Charging short circuit protection	Blown fuse	
Wiring protection	Reverse polarity protection	
Hybrid Max. Charging Current(AC+PV)		
Max charging current(can be set)	0-100A	0-150A
General Data		
EMC certification level	CE-EMC EN IEC 61000-6-1:2019	
Operating temperature range	-10°C to 55°C	
Storage temperature range	-25°C to 60°C	
Humidity range	5% to 95% (Conformal coating protection)	
Noise	≤60dB	
IP Rating	IP21	
Cooling method	Forced air cooling, variable speed of fan	
Communication interface	USB/RS485(Wi-Fi/4G)/ Dry contact control	
Product Size/Packaging Size (L*W*D)	456x300x125mm/510x370x180mm	579x353x147mm/630x455x215mm
Net weight / Gross weight (kg)	10/11	19/20
Optional function		
Parallel function	☐ YES	☐ NO
Wi-Fi function	☐ YES	☐ NO
Grid anti-backflow CT	☐ YES	☐ NO

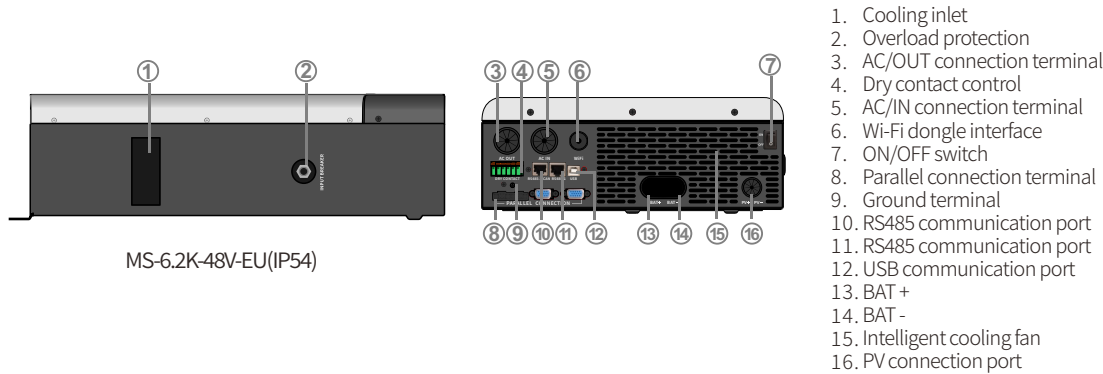
EU-Standard 230V



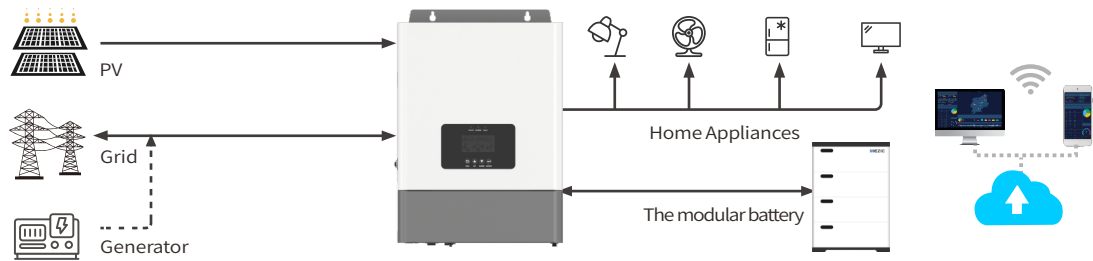
MS-6.2/12K-48V-EU
IP54 On & Off Grid Inverters

- Features segmented charging and discharging.
- anti-backflow grid connection function (photovoltaic mixed power supply), can set grid connection mode.
- Supports use without battery. Solar energy and mains power can supply power to load devices together.
- Equipped with energy-saving mode functions, reducing no-load losses.
- There are 4 charging modes to choose from: Solar only, Mains priority, Solar priority, and Hybrid charging.
- Equipped with dual activation function of lithium battery, it can be triggered by connecting either mains or photovoltaic power source.
- Provides two output modes: mains bypass and inverter output, and has uninterrupted power supply function.
- Includes complete protection against short-circuit, over-voltage, under-voltage, overload, and backflow, ensuring 360° safety.
- Utilizes fully digital voltage and current dual closed-loop control, advanced SPWM technology, and outputting pure sine waves.
- Enables remote monitoring and management via Wi-Fi or 4G.
- With IP54 IP Rating

Interface Description



Solar System Connection



Product Specifications

Model	MS-6.2K-48V-EU	MS-12K-48V-EU
Parallel Mode		
Permitted parallel number	1~6	1~6
AC Mode		
Rated input voltage	230Vac ±5%	230Vac ±5%
Input voltage range	170~280VAC (UPS mode) ; 90~280VAC (APL mode)	
Frequency	50Hz/60Hz (Auto detection)	
Frequency Range	47±0.3Hz~55±0.3Hz (50Hz); 57±0.3Hz~65±0.3Hz (60Hz);	
Overload/short circuit protection	Circuit breaker	
Efficiency	>93%	
Transfer time	≥10ms	
AC reverse protection	Yes	
Maximum bypass overload current	40A	60A
Inverter Mode		
Output voltage waveform	Pure sine wave	
Rated output power (VA/W)	6200VA/6200W	12000VA/12000W
Power factor	1	
Rated output voltage (Vac)	230Vac	
Output voltage error	±5%	
Output frequency range (Hz)	50Hz±0.3Hz/60Hz±0.3Hz	
Maximum Efficiency	>94%	
Overload protection	(102% < load <125%) ±10%: report error and turn off the output after 5 minutes; (125% < load < 150%) ± 10%: report error and turn off the output after 10 seconds; Load >150% ±10%: report error and turn off the output after 5 seconds;	
Peak power	12000VA	24000VA
Loaded motor capability	4HP	8HP
Bypass circuit breaker specification	40A	63A
Rated battery input voltage	51.2V (Minimum starting voltage 44V)	
Battery voltage range	40.0Vdc~60Vdc±0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... settable on LCD screen)	
Power saving mode self-consumption	Load≤25W	Load≤50W
AC Charging		
Battery type	Lead acid or lithium battery	
Maximum charge current(can be set)	80A	150A
Charge current error	±5Adc	
Charge voltage range	40 ~60Vdc	
Short circuit protection	Circuit breaker and blown fuse	
Circuit breaker specifications	40A	63A
PV Charging		
MPPT way	1	2
Maximum PV open circuit voltage	500Vdc	
PV operating voltage range	120Vdc~500Vdc	120Vdc~500Vdc
MPPT voltage range	90Vdc~450Vdc	90Vdc~450Vdc
Battery voltage range	40-60Vdc	
Maximum PV input power	6500W	9000WX2
Maximum PV input current	27A	27A+27A
Charging short circuit protection	Blown fuse	
Wiring protection	Reverse polarity protection	
Hybrid Max. Charging Current(AC+PV)		
Max charging current(can be set)	0-100A	0-150A
General Data		
Operating temperature range	-10°C to 55°C	
Storage temperature range	-25°C to 60°C	
Humidity range	5% to 95% (Conformal coating protection)	
Noise	≤60dB	
IP Rating	IP54	
Cooling method	Forced air cooling, variable speed of fan	
Communication interface	USB/RS485(Wi-Fi/4G)/ Dry contact control	
Product Size/Packaging Size (L*W*D)	456x300x125mm/500x360x180mm	579x353x147mm/630x455x215mm
Net weight / Gross weight (kg)	10/11	19.5/21
Optional Function		
Parallel function	☐ YES	☐ NO
Wi-Fi function	☐ YES	☐ NO
Grid anti-backflow CT	☐ YES	☐ NO

US-Standard 120V

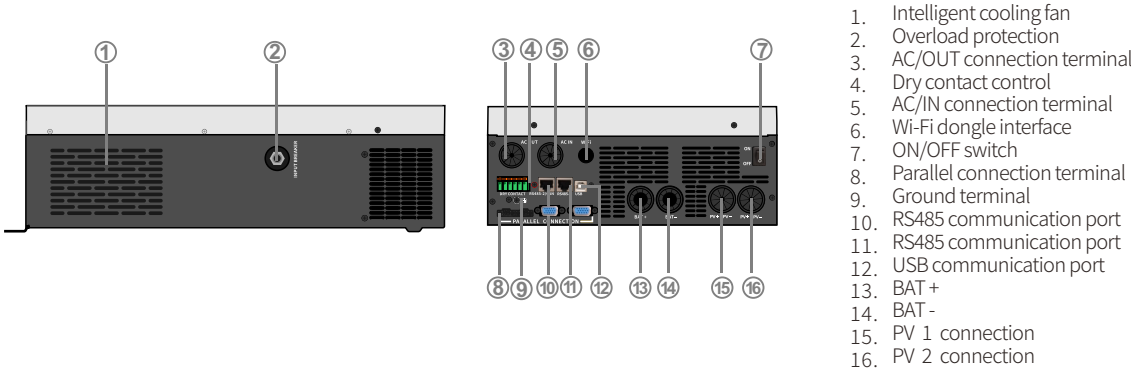


SH-3.6/6.5K-48V-US

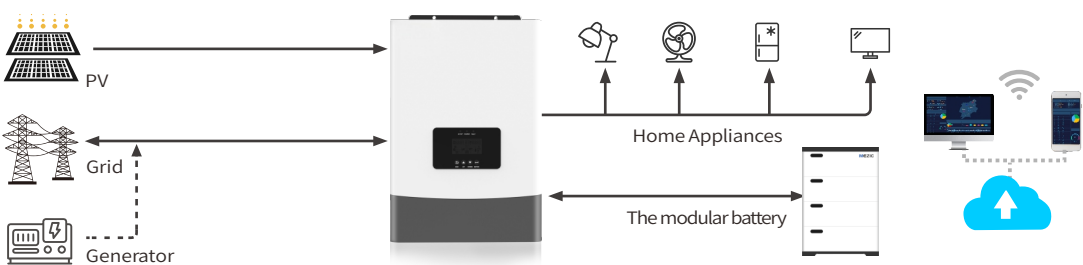
On & Off Grid Inverter

- Features segmented charging and discharging.
- anti-backflow grid connection function (photovoltaic mixed power supply), can set grid connection mode.
- Supports use without battery. Solar energy and mains power can supply power to load devices together.
- Equipped with energy-saving mode functions, reducing no-load losses.
- There are 4 charging modes to choose from: solar only, mains priority, solar priority, and hybrid charging.
- Equipped with dual activation function of lithium battery, it can be triggered by connecting either mains or photovoltaic power source.
- Provides two output modes: mains bypass and inverter output, and has uninterrupted power supply function.
- Includes complete protection against short-circuit, over-voltage, under-voltage, overload, and backflow, ensuring 360° safety.
- Utilizes fully digital voltage and current dual closed-loop control, advanced SPWM technology, and outputting pure sine waves.
- Enables remote monitoring and management via Wi-Fi or 4G.

Interface Description



Solar System Connection



Product Specifications

Model	SH-3.6K-48V-US		SH-6.5K-48V-US	
Parallel Mode				
Permitted parallel number	1~6		1~6	
AC Mode				
Rated input voltage	120Vac ±5%			
Input voltage range	(90Vac~140Vac) ±2%			
Frequency	50Hz/60Hz (Auto detection)			
Frequency Range	47±0.3Hz~55±0.3Hz (50Hz); 57±0.3Hz~65±0.3Hz (60Hz);			
Overload/short circuit protection	Circuit breaker			
Efficiency	>95%			
Transfer time	≥10ms			
AC reverse protection	Yes			
Maximum bypass overload current	40A		60A	
Inverter Mode				
Output voltage waveform	Pure sine wave			
Rated output power (VA/W)	3600VA/3600W		6500VA/6500W	
Power factor	1			
Rated output voltage (Vac)	120Vac			
Output voltage error	±5%			
Output frequency range (Hz)	50Hz±0.3Hz/60Hz±0.3Hz			
Maximum Efficiency	>91%			
Overload protection	(102% < load <110%) ±10%: report error and turn off the output after 5 minutes; (110% < load < 125%) ± 10%: report error and turn off the output after 10 seconds; Load >125% ±10%: report error and turn off the output after 5 seconds;			
Peak power	7200VA		12000VA	
Loaded motor capability	2HP		5HP	
Output short circuit protection	Circuit breaker			
Bypass circuit breaker specification	40A		63A	
Rated battery input voltage	48V (Minimum starting voltage 44V)			
Battery voltage range	40.0Vdc~60Vdc±0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... settable on LCD screen)			
Power saving mode self-consumption	Load≤25W			
AC Charging				
Battery type	Lead acid or lithium battery			
Maximum charge current(can be set)	40A		120A	
Charge current error	±5Adc			
Charge voltage range	40 ~60Vdc			
Short circuit protection	Circuit breaker and blown fuse			
Circuit breaker specifications	40A		63A	
PV Charging				
MPPT channels	1		2	
Maximum PV open circuit voltage	300Vdc			
PV operating voltage range	120Vdc~300Vdc			
MPPT voltage range	90Vdc~260Vdc			
Battery voltage range	40-60Vdc			
Maximum PV input power	4500W		4500W+4500W	
Maximum PV input current	22A		22A+22A	
Wiring protection	Reverse polarity protection			
Hybrid Max. Charging Current(AC+PV)				
Max charging current(can be set)	0-80A		0-150A	
General Data				
Operating temperature range	-10°C to 55°C			
Storage temperature range	-25°C to 60°C			
Humidity range	5% to 95% (Conformal coating protection)			
Noise	≤60dB			
IP Rating	IP21			
Cooling method	Forced air cooling, variable speed of fan			
Communication interface	USB/RS485(Wi-Fi/4G)/ Dry contact control			
Size (L*W*D)	415x280x100mm		550x365x130mm	
Net Weight (kg)	7.8		21	
Optional Function				
Parallel function			☐ YES	☐ NO
Wi-Fi function			☐ YES	☐ NO
Grid anti-backflow CT			☐ YES	☐ NO

US-Standard 120V

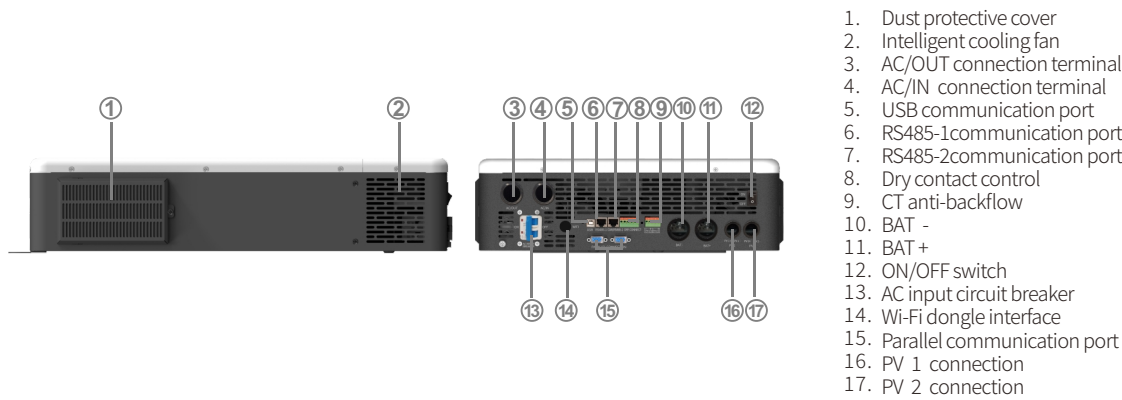


SH-7.2/12K-48V-US

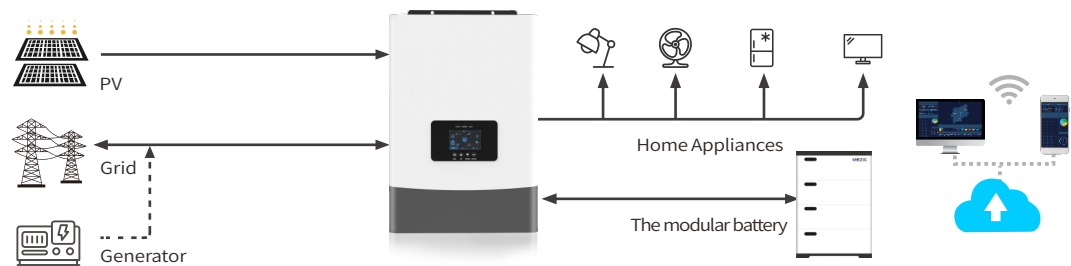
Split Phase On & Off Grid Inverter

- Features segmented charging and discharging.
- anti-backflow grid connection function (photovoltaic mixed power supply), can set grid connection mode.
- Supports use without battery. Solar energy and mains power can supply power to load devices together.
- Equipped with energy-saving mode functions, reducing no-load losses.
- There are 4 charging modes to choose from: solar only, mains priority, solar priority, and hybrid charging.
- Equipped with dual activation function of lithium battery, it can be triggered by connecting either mains or photovoltaic power source.
- Provides two output modes: mains bypass and inverter output, and has uninterrupted power supply function.
- Includes complete protection against short-circuit, over-voltage, under-voltage, overload, and backflow, ensuring 360° safety.
- Utilizes fully digital voltage and current dual closed-loop control, advanced SPWM technology, and outputting pure sine waves. supports split-phase and single-phase pure sine wave output.
- Diverse human-computer interaction: support CAN, USB, Wi-Fi and RS485 communication, local and remote power on or off, Dry contact control.

Interface Description



Solar System Connection



Product Specifications

Model	SH-7.2K-48V-US		SH-12K-48V-US	
Parallel Mode				
Permitted parallel number	1~6		1~6	
AC Mode				
Rated input voltage	120(L1/N, L2/N)/240Vac(L1/L2)			
Input phase voltage range	(85Vac~140Vac)±2%			
Frequency	50Hz/60Hz (Automatic detection)			
Frequency Range	47±0.3Hz~55±0.3Hz (50Hz); 57±0.3Hz~65±0.3Hz (60Hz);			
Overload/short circuit protection	Circuit breaker			
Efficiency	>95%			
Transfer time	≥10ms			
AC reverse protection	Yes			
Maximum bypass phase overload current	2 pole, 63A/63A(L1/L2)			
Inverter Mode				
Output voltage waveform	Pure sine wave			
Rated output power (VA)	Split phase: 7200 Single phase: 6000 (limited by the wiring terminals)		Split phase: 12000 Single phase: 7200 (limited by the wiring terminals)	
Rated output power (W)	Split phase: 7200 Single phase: 6000		Split phase: 12000 Single phase: 7200 (limited by the wiring terminals)	
Power factor	1			
Rated output voltage (Vac)	120Vac (L1/N, L2/N)/240Vac(L1/L2)			
Output voltage error	±5%			
Output frequency range (Hz)	50Hz±0.3Hz/60Hz±0.3Hz			
Maximum Efficiency	>91%			
Overload protection	(102% < load <110%) ±5%: report error and turn off the output after 5 minutes; (110% < load < 125%) ± 5%: report error and turn off the output after 10 seconds; Load >125% ±5%: report error and turn off the output after 5 seconds;			
Peak power	Split phase: 10800VA Single phase: 10800VA		Split phase: 18000VA Single phase: 18000VA	
Loaded motor capability	4HP		6HP	
Output short circuit protection	Can protect, after continuous short circuit for 1 second			
Bypass circuit breaker phase specification	2 pole, 63A/63A(L1/L2)			
Rated battery input voltage	51.2V (Minimum starting voltage 44V)			
Battery voltage range	40.0Vdc~58.6Vdc±0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... setttable on LCD screen)			
Power saving mode self-consumption	Load≤25W enter power-saving mode			
AC Charging				
Battery type	Lead acid or lithium battery			
Maximum charge current(can be set)	120A		160A	
Charge current error	±5Adc			
Charge voltage range	40 ~58.6Vdc			
Short circuit protection	Circuit breaker and blown fuse			
Circuit breaker phase specifications	2 pole, 63A/63A(L1/L2)			
PV Charging				
Number of MPPT groups	2			
Maximum PV open circuit voltage	500Vdc			
PV operating voltage range	90Vdc~485Vdc		90Vdc~500Vdc	
MPPT voltage range	90Vdc~450Vdc			
Battery voltage range	40-58.6Vdc			
Maximum PV input power	4500W+4500W		6000W+6000W	
Maximum PV input current	16A+16A		22A+22A	
Charging short circuit protection	Blown fuse			
Hybrid Max. Charging Current(AC+PV)				
Max charger current(can be set)	0-150A		0-220A	
General Data				
Operating temperature range	-10°C to 55°C			
Storage temperature range	-25°C to 60°C			
Humidity range	5% to 95% (Conformal coating protection)			
Noise	≤60dB			
Cooling method	Forced air cooling, variable speed of fan			
Communication interface	USB/RS485(Wi-Fi/4G)/ Dry contact control			
IP Rating	IP21			
Product /Packaging dimensions (L*W*H)	599x370x136mm/700x485x212mm		620x450x132mm/758x564x224mm	
Net weight / Gross weight (kg)	20/21.5		23.8/28.6	
Optional Function				
Parallel function	☐ YES		☐ NO	
Wi-Fi function	☐ YES		☐ NO	
Grid anti-backflow CT	☐ YES		☐ NO	

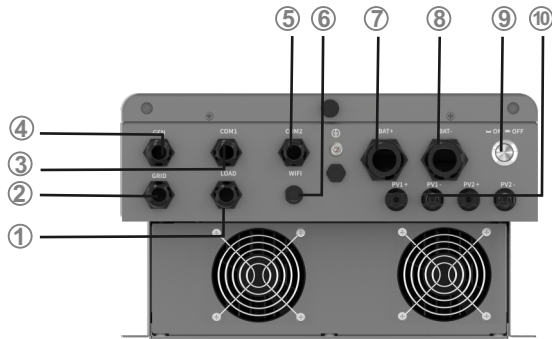


ME-6/8K-48V-EU

IP66 Hybrid Inverter

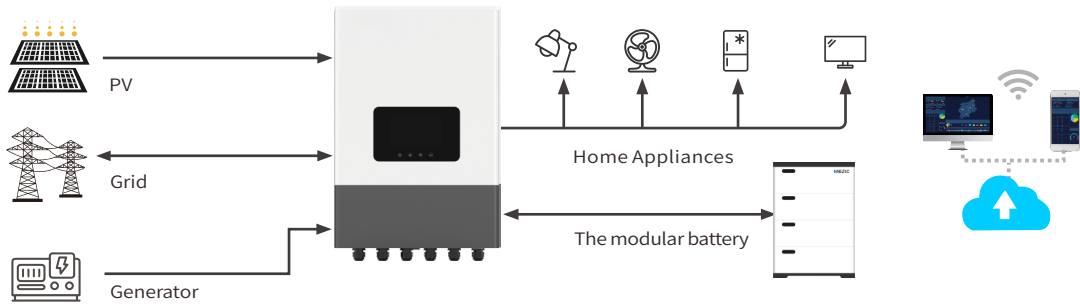
- Advanced MPPT with up to 99.9% efficiency
- Up to 16A+16A PV input current
- Comprehensive security from hardware to software
- Multiple safety approvals
- Up to 100A charging current
- Supports Li-ion battery BMS communication
- Outputs high-quality pure sine wave AC power
- With IP66 IP Rating
- Easy to install and simple to use
- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley
- PV input up to 9 kW.

Interface Description



- 1. Load port
- 2. Generator
- 3. Communication port 1
- 4. Grid interface
- 5. Communication port 2
- 6. Wi-Fi dongle interface
- 7. BAT +
- 8. BAT -
- 9. ON/OFF Switch
- 10. PV 1/ PV 2

Solar System Connection



Product Specifications

Model	ME-6K-48V-EU		ME-8K-48V-EU	
OFF-Grid Output				
Rated Output Power	6000W		8000W	
Max. Peak Power	12000VA		16000VA	
Rated Output Voltage	230Vac, single phase			
Load Capacity of Motors	4HP		5HP	
Output Frequency Range	50Hz ± 0.3Hz/60Hz ± 0.3Hz			
Transfer time	≥10ms			
ON-Grid Output				
Rated Output Power	6000W		8000W	
Max. Apparent Power	6000VA		8000VA	
Rated. Output Current	26A		34.8A	
Max. Output Current	28.6A		38.3A	
THD	< 3%			
Power Factor	0.8 leading to 0.8 lagging			
Rated Voltage	230Vac, single phase			
Frequency	50Hz/60Hz			
Battery				
Battery Type	Lead-acid / Li-ion / User-defined			
Rated Battery Voltage	48V (minimum start-up voltage 44V)			
Battery Voltage Range	40~60Vdc			
Max. PV Charging Current	100A			
Max. Utility Charging Current	60A			
Max. Generator Charging Current	40A			
PV Input				
Number of MPPT	2			
Max. Input Power	4500W+4500W			
Max. Input Current	18A+18A			
Max. Short-circuit Current	27A+27A			
Max. Open-circuit Voltage	500Vdc+500Vdc			
MPPT Operating Voltage Range	120~450Vdc			
Utility / Generator Input				
Input Voltage Range	90~280Vac			
Input Frequency Range	50/60Hz			
Bypass Overload Current	40A			
Efficiency				
MPPT Tracking Efficiency	99.9%			
Max. Efficiency	97.5%			
General Data				
Number of Parallel	1~6 units			
Product/Packaging dimensions (L*W*H)	556*345*205/635*420*285mm			
Net weight / Gross weight (kg)	20/21.5kg			
IP Rating	IP66			
Operating Temperature Range	-25 to 60℃			
Humidity Range	0% ~ 100%			
Noise	<60dB			
Cooling method	heatsink & intelligent air cooling			
Warranty	5 years			
Communication				
Internal Interface	Rs485 / CAN / USB / Dry contact control			
External Module (optional)	Wi-Fi / 4G			
EMC certification level	CE-EMC EN IEC 61000-6-1:2019			
RoHS	Yes			
Optional Function				
Parallel function	☐ YES ☐ NO			
Wi-Fi function	☐ YES ☐ NO			
Grid anti-backflow CT	☐ YES ☐ NO			

EU-Standard 230V

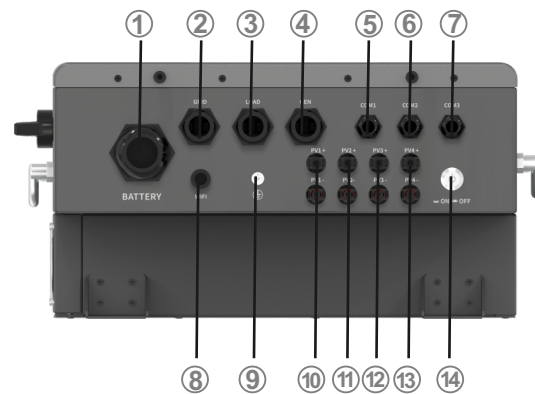


ME-10/12K-48V-EU

IP66 Hybrid Inverter

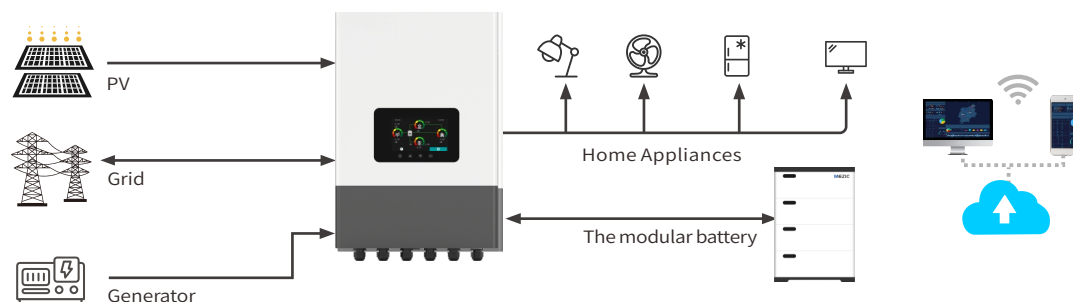
- Advanced MPPT with up to 99.9% efficiency
- Up to 22A X 2 PV input current
- With software and hardware security protection
- Multiple safety approvals
- Up to 200A charging current
- Supports Li-ion battery BMS communication
- Outputs high-quality pure sine wave AC power
- With IP66 IP Rating
- Easy to install and simple to use
- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley

Interface Description



1. Battery
2. Grid interface
3. Load port
4. Generator
5. Communication port 1
6. Communication port 2
7. Communication port 3
8. Wi-Fi dongle interface
9. Ground terminal
10. PV 1
11. PV 2
12. PV 3
13. PV 4
14. ON/OFF Switch

Solar System Connection



Product Specifications

Model	ME-10K-48V-EU	ME-12K-48V-EU
Inverter Output		
Rated Output Power	10000W	12000W
Max. Peak Power	20000VA	24000VA
Rated Output Voltage	230Vac single-phase / three-phase (parallel)	
Load Capacity of Motors	6HP	
Output Frequency	50/60Hz	
Number of Parallel	1~6 units	
AC Output (Grid)		
Rated Output Power	10000W	12000W
Max. Apparent Power	10000VA	12000VA
Max. Output Current	43.5A	52.2A
Max. Output Current	47.8A	57.4A
Rated Output Voltage	230Vac	
THD	< 3%	
Power Factor	0.8 leading to 0.8 lagging	
Rated Voltage	230Vac	
Frequency		
Battery		
Battery Type	Lead-acid / Li-ion / User-defined	
Rated Battery Voltage	51.2V	
Battery Voltage Range	40~60Vdc	
Max. PV Charging Current	200A	
Max. Utility Charging Current	120A	
Max. Generator Charging Current	60A	
PV Input		
Number of MPPT	2/2	
Max. Input Power	5500W+5500W	6600W+6600W
Max. Input Current	22A+22A	
Max.Voltage of Open Circuit	500Vdc+500Vdc	
Mains/Generator Input		
Input Voltage Range	90~280Vac	
Frequency Range	50/60Hz	
Efficiency		
MPPT Tracking Efficiency	99.9%	
Max. Efficiency	97.5%	
European Efficiency	97%	
General Data		
Product/Packaging dimensions (L*W*H)	750*500*246/800*550*330mm	
Net weight / Gross weight (kg)	52/54kg	
IP Rating	IP66	
Operating Temperature Range	-25 to 60℃	
Humidity range	0~100%	
Cooling method	Forced air cooling	
Communication		
Embedded Interfaces	Rs485 / CAN / USB / Dry contact control	
EMC certification level	CE-EMC EN IEC 61000-6-1:2019	
Optional Function		
Parallel function	☐ YES	☐ NO
Wi-Fi function	☐ YES	☐ NO
Grid anti-backflow CT	☐ YES	☐ NO

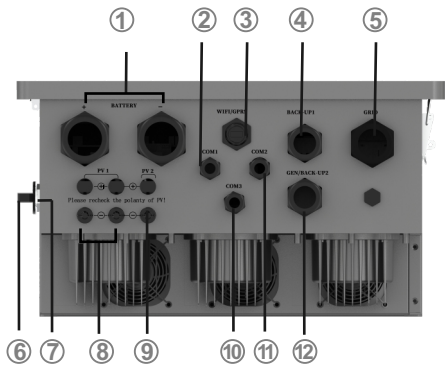


AT-10/12/15/20K-48V-EU

IP66 Three-Phase Hybrid Inverter

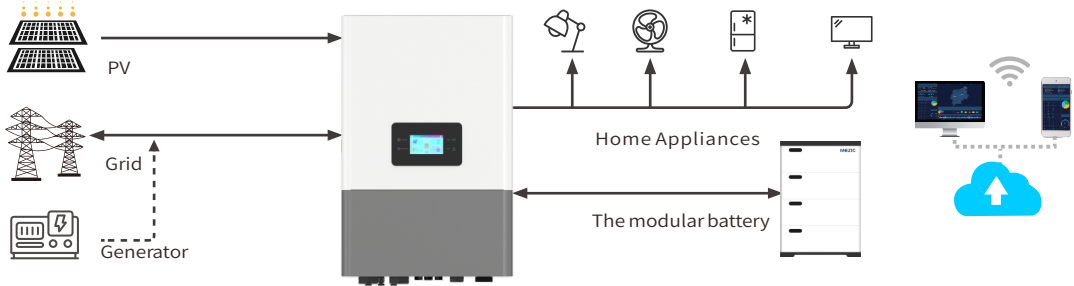
- For Grid-tied and Off-Grid Operation Supports Multiple Batteries in Parallel.
- 100% Unbalanced Output.
- Supports Storing Energy from Diesel Generators.
- Maximum Charging/Discharging Current: 250A

Interface Description



- 1. Battery
- 2. Communication port 1
- 3. Wi-Fi /GPRS dongle interface
- 4. BACK-UP1
- 5. Grid interface
- 6. PV Switch
- 7. DC Switch(Optional)
- 8. PV1
- 9. PV2
- 10. Communication port 3
- 11. Communication port 2
- 12. GEN/BACK-UP2

Solar System Connection



Product Specifications

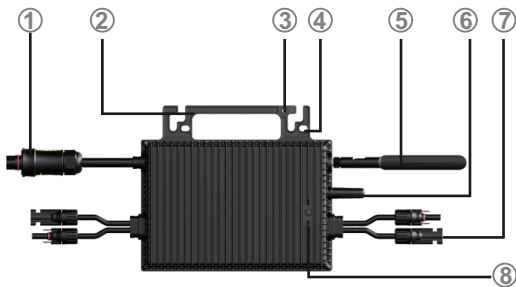
Model	AT-10K-48V-EU	AT-12K-48V-EU	AT-15K-48V-EU	AT-20K-48V-EU
Battery Input Data				
Battery Type	Lithium or Lead-acid Battery			
Rated Battery Voltage (V)	48V			
Max. Charging Voltage (V)	≤60V(configurable)			
Max. Charging/Discharging Current (A)	210A	250A	280A	350A
PV Input Data				
Max. DC Input Power(KW)	20KW	24KW	30KW	32KW
Max. DC Input Voltage(V)	1000			
MPPT Voltage Range (V)	200~800V			
Start-up Voltage (V)	150V			
Max. Input Current(A)	36A/18A			36A/36A
Number of MPPT Trackers	2			
AC Output Data(Grid-tied)				
Max. Apparent Output Power(VA)	11000	13200	16500	22000
Rated Output Voltage(V)	380/400V			380/400V 3W+N+PE
Rated Output Frequency (Hz)	50/60Hz			
Maximum Output Current (A)	16.7A	20A	25A	31.9A
Output Power Factor	1(0.8 leading~0.8lagging)			
AC Output Data (Off-grid)				
Rated Output Power(W)	10000	12000	15000	20000
Peak Output Power(W)	>200%,15sec			
Rated Output Voltage (V)	380/400V			230/400V 3W+N+PE
Rated Output Frequency (Hz)	50/60Hz			
Rated Output Current(A)	16.7A	20A	24A	29A
Efficiency				
Max.Efficiency(PV)	98%			
Max.Efficiency(Battery)	94.5%			
European Efficiency	97.5%			
Protection				
PV Perverse Polarity Protection	Integrated			
PV Insulation Resistance Detection	Integrated			
Residual Current Detection	Integrated			
Output Overcurrent Protection	Integrated			
Output Short-circuit Protection	Integrated			
Output Overvoltage Protection	Integrated			
General Data				
Operating Temperature(°C)	-25~60°C(derating above 45°C)			
Storage Temperature(°C)	-30 to 65°C			
Relative Humidity	0~95%			
Operating Altitude (m)	≤4000m(derating above 2000m)			
Cooling method	Intelligent Forced Air Cooling			
Noise(dB)	<55dB			
Weight(kg)	38KG			43KG
Dimensions(WxHxD mm)	475X683X256mm			750X475X256mm
IP Rating	IP66			
Topology	High-frequency Isolation(Battery Side)			
Safety/EMC Certification	IEC62109,ICE61000,IS16169&IS16221(BIS)			
Grid Compliance	IEC61727,EN50549-1,VDE-4105,NRS-097-2-1,OVE-Richtlinie R25,UNE217001/2,Ordinace No.140			
Other Certifications	IEC61683, IEC62116, EN50530,IEC60068			
Optional Function				
Parallel function	☐ YES		☐ NO	
Wi-Fi function	☐ YES		☐ NO	
Grid anti-backflow CT	☐ YES		☐ NO	



MZ-IVM800/1000/2000
Micro Inverter

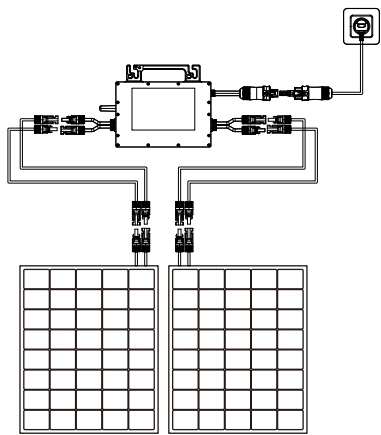
- ✓ Plug-and-Play Made Effortless
- ✕ Single unit connects to 2 & 4 PV panel
- 🔌 IP67 IP Rating
- ⚡ MPPT for maximum power generation and efficiency
- 📶 Wi-Fi remote monitoring
- ✓ It comes with an anti-backflow module function
- 🔍 Suitable for crystalline silicon and thin film PV panel

Interface Description

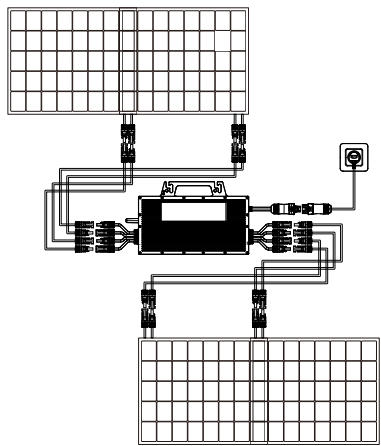


- 1. AC Output Connector
- 2. Grips
- 3. Grounding hole
- 4. Mounting hole
- 5. Antenna
- 6. Connection with high-ranking officials
- 7. DC Input Connector
- 8. LED indicator

Connection Diagram



MZ-IVM 800 / MZ-IVM 1000



MZ-IVM 2000

Model	MZ-IVM 800	MZ-IVM 1000	MZ-IVM 2000
Input Data (DC)			
Recommended solar panel input power	200-430W× 2	200-530W× 2	275-530W× 4
Number of DC input connections	MC4× 2		Mc4× 4
Max. input voltage	60V		
Max input short-circuit current	20A*2		25A*4
PV Operating voltage	16-60V		
Start-up voltage	22V		
MPPT tracking range	22-55V		
MPPT tracking accuracy	>99.5%		
Max. continuous input current	14A*2	16A*2	16A*4
Output Data(AC)			
Max. continuous output power	800W	1000W	2000W
Nominal output voltage	230V		
Operating voltage range	190-270V		
Max. continuous output current	3.47A	4.34A	8.69A
Nominal output frequency	50Hz/60Hz		
Output frequency range	47.5-51.5Hz/57.5-62.5Hz		
THD	<5%		
Power factor	>0.99		
Peak efficiency	96%		
Protective class	Class I		
Protection Function			
Operating ambient temp.	-40°C to +65°C		
Indication light quantity	Working status: Led light		
Communication connection mode	Wi-Fi / 2.4G		
Cooling method	Natural cooling(no fan)		
Working environment	Indoor and Outdoor		
IP Rating	IP66		
Weight	2.52 kg		3.8 kg
Size (LxWxH)mm	227x195.5x42mm		342x225.4x50mm
Certified Specifications			
Certification	VDE: VDE-AR-N 4105 CE-LVD: EN62109-1/2 CE-EMC: EN61000-6-2/4 EN61000-3-2/3 Rohs: IEC62321		EN62109-1, EN62109-2 EN61000-6-2/4 EN61000-3-2/3 EN62920 Ordinance NO.140 Rohs: IEC62321

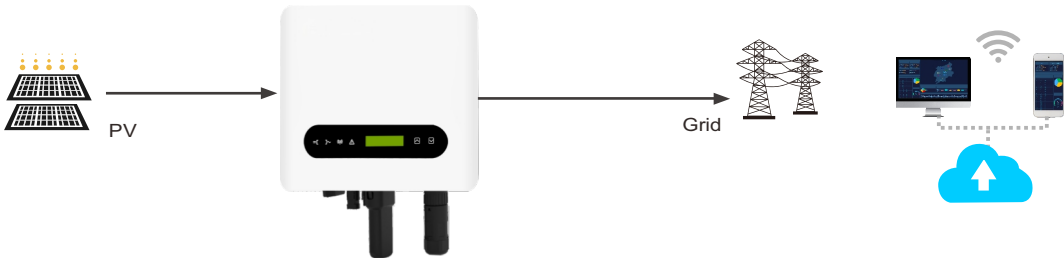


AT-2/3/5K-TLS-EU

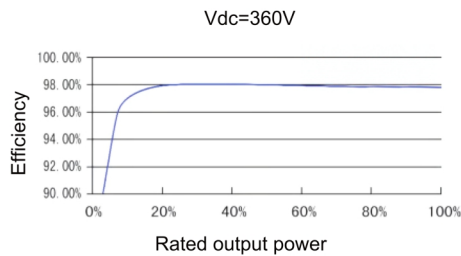
IP66 On-Grid Inverter

- Flexible Design**
Compact, lightweight, and easy to install manually, reducing installation and maintenance costs.
Multiple communication interfaces: RS485, with optional 4G and Wi-Fi modules.
Integrated DC breaker for easy maintenance and enhanced safety.
Fanless convection cooling.
Advanced digital DSP control technology.
- Efficient Conversion**
Transformerless, max. efficiency is up to 98.1%;Euro.efficiency is up to 97.6%
Total current THD<2%
- Grid-Friendly**
Active and passive anti-islanding protection. Continuously adjustable active power(0-100%) function.
- Excellent qualities**
CQC Gold Sun Certification, TUV Certification, SAA Certification, CE Certification

Solar System Connection



Efficiency Curve



Product Specifications

Model	AT-2K-TLS-EU	AT-3K-TLS-EU	AT-5K-TLS-EU
Input Data			
Max.DC input power	4000W	6000W	7500W
Max.DC input voltage		550V	
Max.DC input current		20A	
MPPT voltage range		40-550V	
Recommended MPPT operating voltage		360V	
Starting voltage		50V	
Number Of MPPT		1	
Max. Number. of strings per MPPT		1	
Output Data			
Rated output power	2000W	3000W	5000W
Max.output power	2200VA	3300VA	5500VA
Max.output current	10A	15A	25A
Rated grid voltage	220/230/240V		
Grid voltage range	90-290Vac		
Rated grid frequency	50Hz/60Hz		
Grid frequency range	45-55Hz/55-65Hz		
THD	<3% (Under rated power)		
Power factor	> 0.99 (Under rated power) / Adjustable range: 0.8 leading-0.8 lagging		
DC current injection	<0.5% (Under rated power)		
System Data			
Max. efficiency	98.00%		
European efficiency	97.00%		
Humidity range	0-100% non-condensing		
Cooling method	Natural cooling		
Temperature range	-25°C to +60°C		
Night-time power consumption	<1W		
Max. working altitude	4000m		
Display	LED(optional: LCD)		
Communication interface	Wi-Fi(optional: RS485 or 4G)		
Protection			
DC reverse-polarity protection	YES		
Short circuit protection	YES		
Output overcurrent protection	YES		
Output overvoltage protection	YES		
Insulation resistance monitoring	YES		
Residual current detection	YES		
Surge protection	YES		
Grid monitoring	YES		
Islanding protection	YES		
Temperature protection	YES		
Integrated DC switch	Optional		
Mechanical Data			
Dimensions (W*H*D)	295*210*120mm		
Weight	5.5kg		
IP Rating	IP66		
Standard			
Safety standard/EMC standard	NB/T32004-2018, IEC62109, IEC61000, IS16169 & IS16221(BIS)		
Grid-connected standard	IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinance No.140		
Other standard	IEC61683, IEC62116, EN50530, IEC60068		



AT-36/40/50/60K-TLC-EU

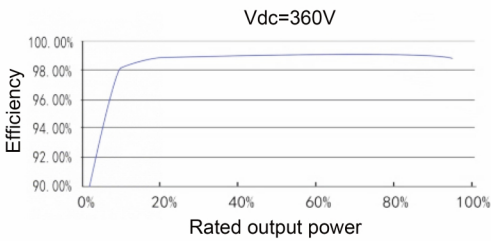
IP66 On-Grid Inverter

- **Flexible Design**
Multiple interfaces: RS485, optional Wi-Fi/4G
Built-in DC breaker for safety & maintenance
Integrated combiner box & DC lightning protection, reducing system cost.
- **Efficient Conversion**
Transformerless, max. efficiency up to 99.02% (European efficiency up to 98.51%)
THD < 3%
3-level SVPWM control for high DC voltage utilization
- **Grid-Friendly**
LVRT/HVRT compliant
Adjustable Power Factor (0.8 leading to 0.8 lagging)
Active and passive anti-islanding protection
0-100% continuously adjustable active power.
- **Excellent qualities**
CQC Gold Sun Certification, TUV Certification, SAA Certification, CE Certification

Solar System Connection



Efficiency Curve



Product Specifications

Model	AT-36K-TLC-EU	AT-40K-TLC-EU	AT-50K-TLC-EU	AT-60K-TLC-EU
Input Data				
Max.DC input power	54000W	60000W	75000W	90000W
Max.DC input voltage	1000V			
Max.DC input current	40/40/20/40/40/20A		40/40/20/20/40/40/20/20A	
MPPT voltage range	180-1000V			
Recommended MPPT operating voltage	360V			
Starting voltage	180V			
Number Of MPPT	6		8	
Max. Number of strings per MPPT	2			
Output Data				
Rated output power	36000W	40000W	50000W	60000W
Max.output power	39.6kVA	44kVA	55kVA	66kVA
Max.output current	103.9A	115.4A	144.3A	173.2A
Rated grid voltage	3/(N)/PE, 220V			
Grid voltage range	170-265Vac			
Rated grid frequency	50Hz/60Hz			
Grid frequency range	47.5-52.5Hz/57.5-62.5Hz			
THD	<3% (Under rated power)			
Power factor	>0.99 (Under rated power) / Adjustable range: 0.8 leading-0.8 lagging			
DC current injection	<0.5% (Under rated power)			
System Data				
Max. efficiency	98.70%	98.70%	98.80%	98.80%
European efficiency	98.10%	98.20%	98.20%	98.30%
Humidity range	0-100% non-condensing			
Cooling method	Intelligent forced air cooling			
Temperature range	-25 to +60°C			
Night-time power consumption	<1W			
Max. working altitude	4000m			
Display	LED(optional: LCD)			
Communication interface	Wi-Fi(optional: RS485 or 4G)			
Protection				
DC reverse-polarity protection	YES			
Short circuit protection	YES			
Output overcurrent protection	YES			
Output overvoltage protection	YES			
Insulation resistance monitoring	YES			
Residual current detection	YES			
Surge protection	YES			
Grid monitoring	YES			
Islanding protection	YES			
Temperature protection	YES			
Integrated DC switch	YES			
Mechanical Data				
Dimensions (W*H*D)	1160*611*286mm			
Weight	90kg			
IP Rating	IP66			
Standard				
Safety standard/EMC standard	NB/T32004-2018, IEC62109, IEC61000, IS16169 & IS16221(BIS)			
Grid-connected standard	IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinance No.140			
Other standard	Rated output power IEC61683, IEC62116, EN50530, IEC60068			
Optional Function				
Wi-Fi function	☐ YES		☐ NO	
Grid anti-backflow CT	☐ YES		☐ NO	

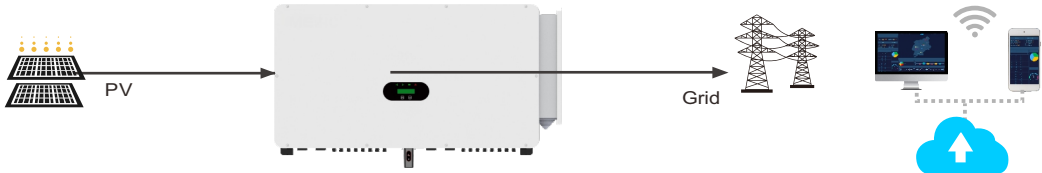


AT-70/80/90/100/110/120K-TLC-EU

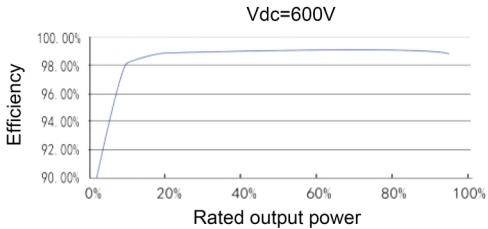
IP66 On-Grid Inverter

- Flexible Design**
Multiple interfaces: RS485, optional Wi-Fi/4G
Built-in DC breaker for safety & maintenance
Integrated combiner box & DC lightning protection, reducing system cost.
- Efficient Conversion**
Transformerless, max. efficiency up to 99% (European efficiency up to 98.5%)
THD < 2%
3-level SVPWM control for high DC voltage utilization
- Grid-Friendly**
LVRT/HVRT compliant
Adjustable Power Factor (0.8 leading to 0.8 lagging)
Active and passive anti-islanding protection
0-100% continuously adjustable active power
- Excellent qualities**
CQC Gold Sun Certification, TUV Certification, SAA Certification, CE Certification

Solar System Connection



Efficiency Curve



Product Specifications

Model	AT-70K-TLC-EU	AT-80K-TLC-EU	AT-90K-TLC-EU	AT-100K-TLC-EU	AT-110K-TLC-EU	AT-120K-TLC-EU
Input Data						
Max.DC input power	105kW	120kW	135kW	150kW	165kW	180kW
Max.DC input voltage	1100V					
Max.DC input current	40/40/20/40/40/20A		40/40/20/20/40/40/20/20A			
MPPT voltage range	200-1000V					
Recommended MPPT operating voltage	600V					
Starting voltage	180V					
Number Of MPPT	6	8				
Max. Number of strings per MPPT	2/2/1/2/2/1	2/2/1/1/2/2/1/1				
Output Data						
Rated output power	70kW	80kW	90kW	100kW	110kW	120kW
Max.output power	77kW	88kW	99kW	110kW	121kW	132kW
Max.output current	112A	128A	144A	160A	176A	191A
Rated grid voltage	400Vac					
Grid voltage range	310-480Vac					
Rated grid frequency	50Hz/60Hz					
Grid frequency range	45-55Hz/55-65Hz					
THD	<2% (Under rated power)					
Power factor	>0.99 (Under rated power) / Adjustable range: 0.8 leading-0.8 lagging					
DC current injection	<0.5% (Under rated power)					
System Data						
Max. efficiency	98.60%	98.60%	98.60%	98.60%	98.70%	98.70%
European efficiency	98.10%	98.10%	98.10%	98.10%	98.10%	98.20%
Humidity range	0-100% non-condensing					
Cooling method	Intelligent forced air cooling					
Temperature range	-25 to +60°C					
Night-time power consumption	<1W					
Max. working altitude	4000m					
Display	LED(optional: LCD)					
Communication interface	Wi-Fi(optional: RS485 or 4G)					
Protection						
DC reverse-polarity protection	YES					
Short circuit protection	YES					
Output overcurrent protection	YES					
Output overvoltage protection	YES					
Insulation resistance monitoring	YES					
Residual current detection	YES					
Surge protection	YES					
Grid monitoring	YES					
Islanding protection	YES					
Temperature protection	YES					
Integrated DC switch	YES					
Mechanical Data						
Dimensions (W*H*D)	1160*611*286mm					
Weight	92kg					
IP Rating	IP66					
Standard						
Safety standard/EMC standard	NB/T32004-2018, IEC62109, IEC61000, IS16169 & IS16221(BIS)					
Grid-connected standard	IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinance No.140					
Other standard	IEC61683, IEC62116, EN50530, IEC60068					
Optional Function						
Wi-Fi function	☐ YES ☐ NO					
Grid anti-backflow CT	☐ YES ☐ NO					

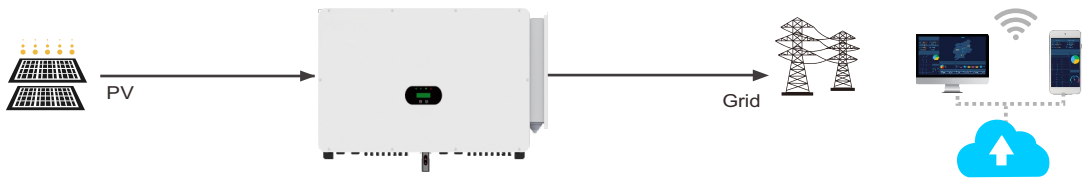


AT-225/320K-EHV-EU

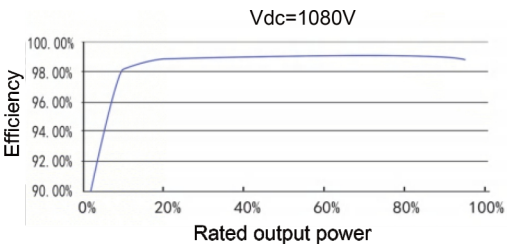
IP66 On-Grid Inverter

- Flexible Design**
Multiple interfaces: RS485, optional Wi-Fi/4G
Built-in DC breaker for safety & maintenance
Integrated combiner box & DC lightning protection, reducing system cost.
- Efficient Conversion**
Transformerless, max. efficiency up to 99.02% (European efficiency up to 98.51%)
THD < 3%
3-level SVPWM control for high DC voltage utilization
- Grid-Friendly**
LVRT/HVRT compliant
Adjustable Power Factor (0.8 leading to 0.8 lagging)
Active and passive anti-islanding protection
0-100% continuously adjustable active power
- Excellent qualities**
CQC Gold Sun Certification, TUV Certification, SAA Certification, CE Certification

Solar System Connection



Efficiency Curve



Product Specifications

Model	AT-225K-EHV-EU		AT-320K-EHV-EU	
Input Data				
Max.DC input power	337.5kW		480kW	
Max.DC input voltage			1500V	
Max.DC input current	40A*12		40A*12 (Optional: 30A*14/30A*16)	
MPPT voltage range			500~1500V	
Recommended MPPT operating voltage			1080V	
Starting voltage			550V	
Number Of MPPT	12		12 (Optional: 14/16)	
Max. Number of strings per MPPT			1	
Output Data				
Rated output power	225kW		320kW	
Max.output power	247.5kVA		352kVA	
Max.output current	178.7A		254A	
Rated grid voltage			800V	
Grid voltage range			640-920Vac	
Rated grid frequency			50Hz/60Hz	
Grid frequency range			45-55Hz/55-65Hz	
THD			<3% (Under rated power)	
Power factor	>0.99 (Under rated power) / Adjustable range: 0.8 leading-0.8 lagging			
DC current injection			<0.5% (Under rated power)	
System Data				
Max. efficiency	99.02%		99.02%	
European efficiency	98.51%		98.52%	
Humidity range			0-100% non-condensing	
Cooling method			Intelligent forced air cooling	
Temperature range			-30 to +60°C	
Night-time power consumption			≤2W	
Max. working altitude			5000m (frequency-decreasing above 4000m)	
Display			LED, Bluetooth+APP(optional:LCD)	
Communication interface			Wi-Fi(optional: RS485 or 4G)	
Protection				
DC reverse-polarity protection			YES	
Short circuit protection			YES	
Output overcurrent protection			YES	
Output overvoltage protection			YES	
Insulation resistance monitoring			YES	
Residual current detection			YES	
Surge protection			YES	
Grid monitoring			YES	
Islanding protection			YES	
Temperature protection			YES	
Integrated DC switch			YES	
Mechanical Data				
Dimensions (W*H*D)	1008*700*351mm		1136*870*361mm	
Weight	96kg		116kg	
IP Rating			IP66	
Standard				
Safety standard/EMC standard	NB/T32004-2018, IEC62109, IEC61000, IS16169 & IS16221(BIS)			
Grid-connected standard	IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinance No.140			
Other standard	IEC61683, IEC62116, EN50530, IEC60068			
Optional Function				
Parallel function			☐ YES	☐ NO
Wi-Fi function			☐ YES	☐ NO
Grid anti-backflow CT			☐ YES	☐ NO

ALL-IN-ONE

ALL-IN-ONE

5KW-10-15KWH-EU-----	35-36
4.2KW-8KWH-EU -----	37-38
6.2-12KW-10-16KWH-EU -----	39-40
15KW-32KWH-EU-----	41-42
7.2-12KW-16KWH-US-----	43-44

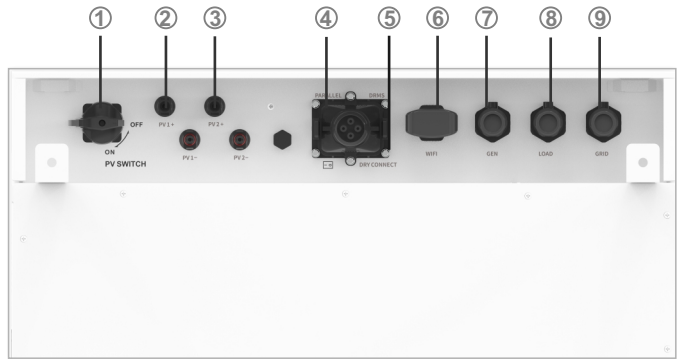
EU-Standard 230V



MF-5K-10/15KWH-EU
IP65 Stacked Energy Storage System

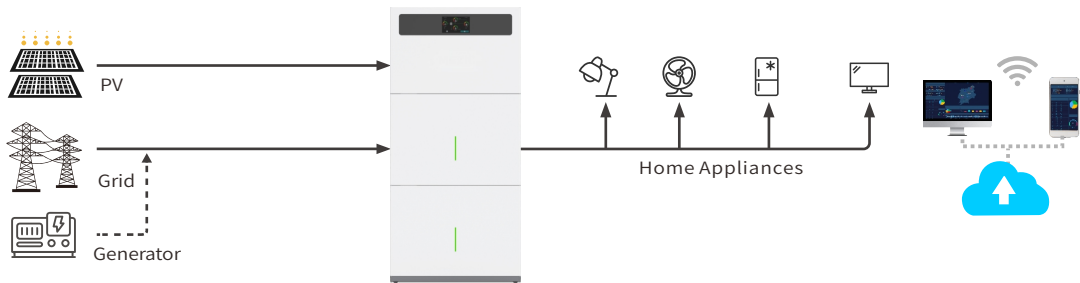
- Less Waste, Max Storage**
High energy density and efficient energy utilization
- Safe and Powerful Technology**
LFP (LiFePO4) battery cell, electrical isolation, external short circuit protection
- Power for Your Home**
This system stores energy, detects outages, and automatically powers your home when the grid fails. Unlike generators, it provides quiet, maintenance-free backup—no fuel, no fumes. Pair it with solar panels to recharge with sunlight and keep your essentials running for days.

Interface Description



- 1. PV Switch
- 2. PV 1
- 3. PV 2
- 4. Parallel connection terminal
- 5. Dry contact control
- 6. Wi-Fi dongle interface
- 7. Generator
- 8. Load port
- 9. Grid interface

Solar System Connection



Product Specifications

Model	MF-5K-10KWH-EU	MF-5K-15KWH-EU
Battery Data		
Battery type	LiFePO4	
Battery nominal voltage (Vdc)	51.2	
Battery capacity (Wh)	5120X2	5120X3
Number of Batteries	2	3
Max. charging current/output current (A)	100	
Max. Rated discharge power (W)	5000	
Charging temperature(°C)	0~55	
Discharging temperature(°C)	-20~55	
Output Data (Off-Grid)		
Rated Output Power	5000W	
Max. Peak Power	12,000VA	
Rated Output Voltage	230Vac, single phase	
Load Capacity of Motors	4HP	
Output Frequency Range	50Hz ± 0.3Hz/60Hz ± 0.3Hz	
Transfer time	≥10ms	
Output Data (On-Grid)		
Rated Output Power	5000W	
Max. Apparent Power	12000VA	
Rated. Output Current	24.2A	
Max. Output Current	26.6A	
THD	< 3%	
Power Factor	0.8 leading to 0.8 lagging	
Rated Voltage	230Vac, single phase	
Frequency	50Hz/60Hz	
PV Input		
Number of MPPT	2	
Max. Input Power	4500W+4500W	
Max. Input Current	18A+18A	
Max. Short-circuit Current	27A+27A	
Max. Open-circuit Voltage	500Vdc+500Vdc	
MPPT Operating Voltage Range	120~450Vdc	
Utility /Generator Input		
Input Voltage Range	90~280Vac	
Input Frequency Range	50/60Hz	
Bypass Overload Current	40A	
Efficiency		
MPPT Tracking Efficiency	99.9%	
Max. Efficiency	97.5%	
General Data		
Number of Parallel	1~6 units	
Operating Temperature Range	-25 to 60°C	
Humidity Range	0% ~ 100%	
Noise	<60dB	
Cooling method	heatsink & intelligent air cooling	
IP Rating	IP65	
Inverter Size/Package Size (LxWxH) (MM)	600X200X400/695X310X560	
Battery pack Size/Package Size (LxWxH) (MM)	600X200X420/680X280X510	
Inverter Net Weight/Gross Weight (kg)	33/35KG	
Battery pack Net Weight/Gross Weight (kg)	55/56.5KG	
Communication		
Internal Interface	Rs485 / CAN / USB / Dry contact control	
External Module (optional)	Wi-Fi / 4G	
Certification		
Inverter Certification	EN IEC 61000-6-:2019/EN IEC 61000-6-3:2021/AS 4777.2-2020/Amd 2-2024/IEC 60529 (IP) IEC 62109-1:2010/EN 62109-1:2010/IEC 62109-2:2011/EN 62109-2:2011/AS 60947.3:2023	
Battery pack certification	AS 60947.3/IEC 60529 (IP)	
Optional Function		
Parallel function	☐ YES	☐ NO
Wi-Fi function	☐ YES	☐ NO
Grid anti-backflow CT	☐ YES	☐ NO



MF-4.2K-8KWH-EU

ALL IN ONE



Less Waste, Max Storage

Harness more of the sun's power—this energy storage system increases the self-consumption rate up to 90%, lowering your electricity bill and your carbon



Safe and Powerful Technology

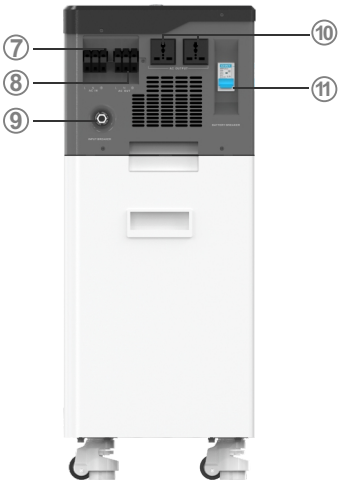
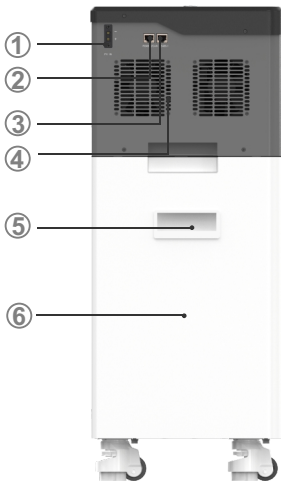
LFP (LiFePO4) batteries are safer, and an electrical isolation design protects against accidental short circuits



Power for Your Home

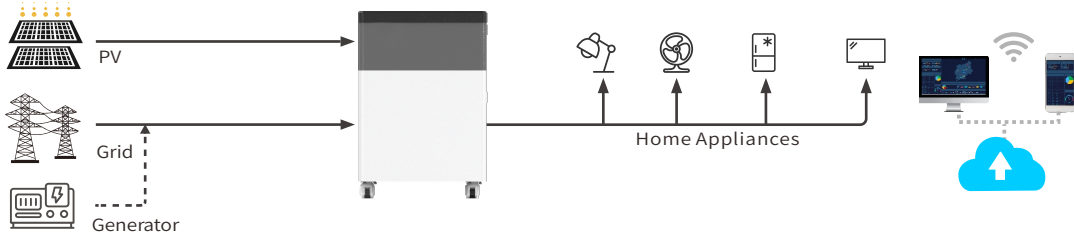
This system stores energy, detects outages, and automatically powers your home when the grid fails. Unlike generators, it provides quiet, maintenance-free backup—no fuel, no fumes. Pair it with solar panels to recharge with sunlight and keep your essentials running for days.

Interface Description



- 1. PV input
- 2. RS232 communication port
- 3. RS485 communication port
- 4. Intelligent cooling fan
- 5. Handle
- 6. Battery pack
- 7. Mains input
- 8. AC output
- 9. Overload protection switch
- 10. AC output (Outlet)
- 11. Battery Switch

Solar System Connection



Product Specifications

Model	MF-4.2K-8KWH-EU
Battery Data	
Battery type	LiFePO4
Battery nominal voltage (Vdc)	51.2
Battery capacity (Wh)	7168
Max. charging current/output current (A)	80
Rated charging power/Rated discharge power (W)	4200
Charging temperature(°C)	0~55
Discharging temperature(°C)	-20~55
Input Data (PV)	
Max. input Power (W)	6200
Max. input voltage (Vdc)	500Vdc
MPPT Operating Voltage Range(Vdc)	120-450
Start voltage (Vdc)	120
Single MPPT input current (A)	20
Max. input current of single MPPT (A)	22
Number of MPPT	1
Number of Strings Per MPPTs	2
AC Output (Grid connected)	
Grid connected output nominal power (VA)	4200
Max. power output/input for grid connection (VA)	4200
Rated output voltage (Vac)	230
Output voltage range (Vac)	180-270
Rated operating frequency (Hz)	50/60(±0.2%)
Max. output/input current for grid connection (A)	16/18.3
Transfer time (ms)	10
Power factor	0.8 leading... 0.8 lagging
THD	<3%
AC Output (Off Grid)	
Off grid output nominal power (VA)	4200
Max. output power of off grid (VA)	4200
Max. off-grid output current (A)	18.3
Rated output voltage (Vac)	230 (±2%)
Output voltage range (Vac)	180-270
Rated operating frequency (Hz)	50/60(±0.2%)
THD	<3%
Efficiency	
Max. Efficiency	>95%
Max. DC-AC transformation efficiency	>92%
MPPT Efficiency	99.9%
General Data	
Operating Temperature (°C)	-15 to 55 °C
Relative Humidity	5%-95%
Noise(Normal)(dB)	≤60
Communication	RS232/RS485
Cooling method	FAN Cooling
IP Rating	IP21
Inverter Size/Package Size (LxWxH) (MM)	520X240X304/610X340X360
Battery pack Size/Package Size(LxWxH) (MM)	520X450X304/610X555X360
Inverter Net Weight/Gross Weight (kg)	14/16KG
Battery pack Net Weight/Gross Weight (kg)	62.6/64.5KG

EU-Standard 230V



MF-6.2/12K-10/16KWH-EU

ALL IN ONE



Less Waste, Max Storage

Harness more of the sun's power—this energy storage system increases the self-consumption rate up to 90%, lowering your electricity bill and your carbon



Safe and Powerful Technology

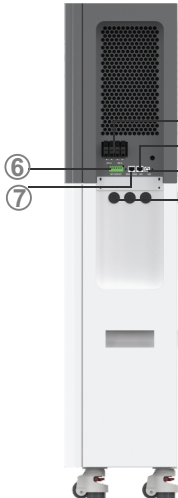
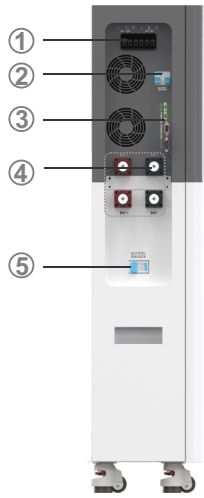
LFP (LiFePO4) batteries are safer, and an electrical isolation design protects against accidental short circuits



Power for Your Home

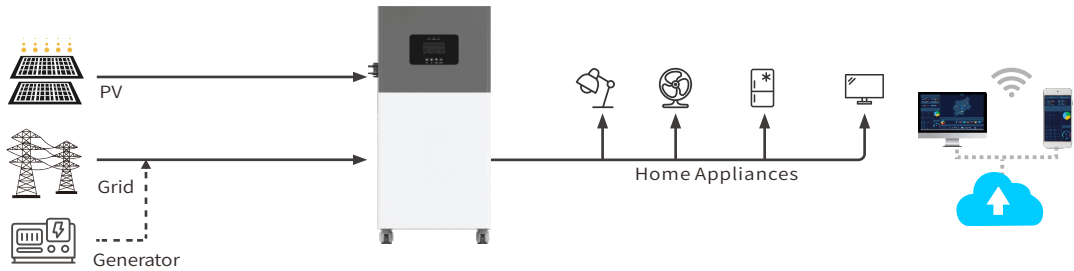
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Interface Description



- 1. AC OUT /AC IN
- 2. AC INPUT BREAKER
- 3. Parallel communication port
- 4. BAT+ BAT-
- 5. Battery breaker
- 6. Dry conntact
- 7. PV input
- 8. RS485/BMS communication port
- 9. Wi-Fi port
- 10. USB communication port
- 11. Battery communication port

Solar System Connection



Product Specifications

Model	MF-6.2K-10/16KWH-EU		MF-12K-16KWH-EU	
Battery Data				
Battery type			LiFePO4	
Battery nominal voltage (Vdc)			51.2	
Battery capacity (Wh)	10240/16076		16076	
Max. charging current/output current (A)	100/150		150	
Rated charging power/Rated discharge power (W)	6200		12000	
Charging temperature(°C)			0~55	
Discharging temperature(°C)			-20~55	
AC mode				
Rated input voltage	230Vac ±5%		230Vac ±5%	
Input voltage range	170~280VAC (UPS mode) ; 90~280VAC (APL mode)			
Frequency	50Hz/60Hz (Auto detection)			
Frequency Range	47±0.3Hz~55±0.3Hz (50Hz); 57±0.3Hz~65±0.3Hz (60Hz);			
Overload/short circuit protection	Circuit breaker			
Efficiency	>93%			
Transfer time	≥10ms			
AC reverse protection	Yes			
Maximum bypass overload current	40A		60A	
Inverter mode				
Output voltage waveform	Pure sine wave			
Rated output power (VA/W)	6200VA/6200W		12000VA/12000W	
Power factor	1			
Rated output voltage (Vac)	230Vac			
Output voltage error	±5%			
Output frequency range (Hz)	50Hz±0.3Hz/60Hz±0.3Hz			
Maximum Efficiency	>92%		>94%	
Peak power	12000VA		24000VA	
Loaded motor capability	4HP		8HP	
Output short circuit protection	Circuit breaker			
Bypass circuit breaker specification	40A		63A	
Rated battery input voltage	51.2V (Minimum starting voltage 44V)			
Battery voltage range	40.0Vdc~60Vdc±0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... settable on LCD screen)			
Power saving mode self-consumption	Load≤25W		Load≤50W	
AC charging				
Battery type	Lead acid or lithium battery			
Maximum charge current(can be set)	80A		150A	
Charge current error	±5Adc			
Charge voltage range	40 ~60Vdc			
Short circuit protection	Circuit breaker and blown fuse			
Circuit breaker specifications	40A		63A	
PV charging				
MPPT way	1		2	
Maximum PV open circuit voltage	500Vdc			
PV operating voltage range	120Vdc~500Vdc		120Vdc~500Vdc	
MPPT voltage range	90Vdc~450Vdc		90Vdc~450Vdc	
Battery voltage range	40-60Vdc			
Maximum PV input power	6500W		9000WX2	
Maximum PV input current	27A		27A+27A	
Charging short circuit protection	Blown fuse			
Wiring protection	Reverse polarity protection			
Hybrid Max. Charging Current(AC+PV)				
Max charging current(can be set)	0-100A		0-150A	
General Data				
Operating temperature range	-10°C to 55°C			
Storage temperature range	-25°C to 60°C			
Humidity range	5% to 95% (Conformal coating protection)			
IP Rating	IP54			
Cooling method	Forced air cooling, variable speed of fan			
Communication interface	USB/RS485(Wi-Fi/4G)/ Dry contact control			
Product Size (LxWxH) (MM)	1098X560X251			
Packing Size (LxWxH) (MM)	1220X620X440			
Net Weight/Gross Weight (kg)	105/120	130/150	130/150	
Optional Function				
Parallel function			☐ YES	☐ NO
Wi-Fi function			☐ YES	☐ NO
Grid anti-backflow CT			☐ YES	☐ NO

EU-Standard 230V

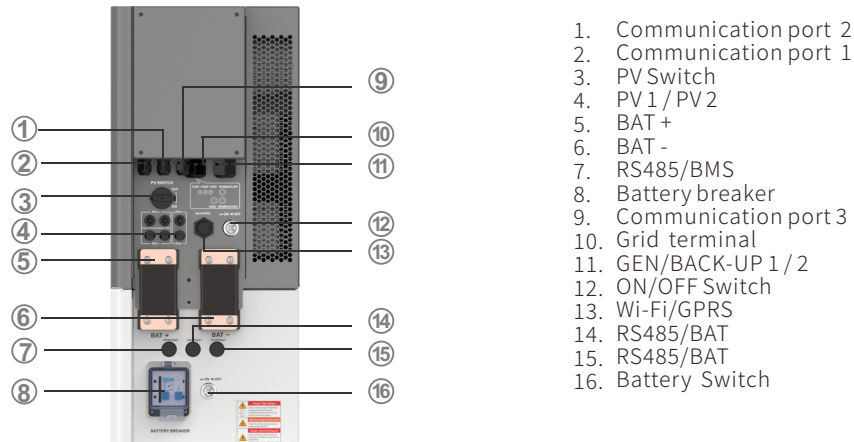


MF-15K-32KWH-EU

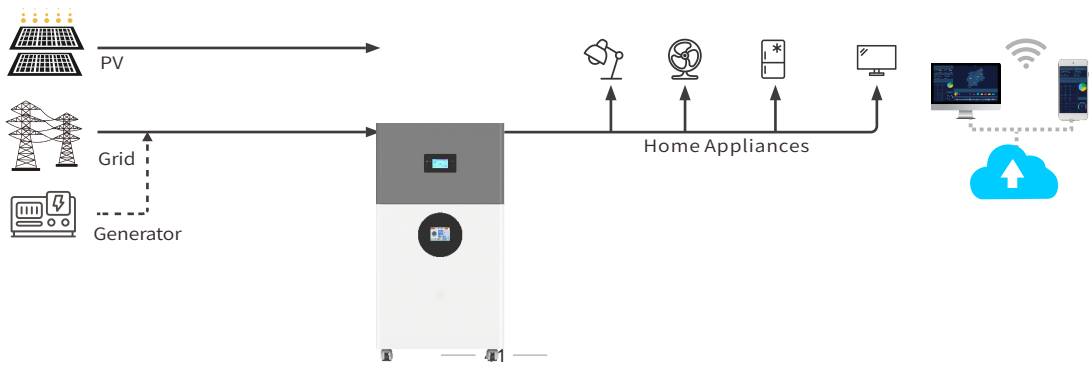
ALL IN ONE

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- Safe and Powerful Technology**
LFP (LiFePO4) batteries are safer, and an electrical isolation design protects against accidental short circuits
- Power for Your Home**
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Interface Description



Solar System Connection



Product Specifications

Model	MF-15K-32KWH-EU
Battery Data	
Battery type	LiFePO4
Battery nominal voltage (Vdc)	51.2
Battery capacity (Wh)	32150
Max. charging current/output current (A)	300
Rated charging power/Rated discharge power (W)	15000
Charging temperature(°C)	0~55
Discharging temperature(°C)	-20~55
PV Input Data	
Max. DC Input Power(KW)	30KW
Max. DC Input Voltage(V)	1000
MPPT Voltage Range (V)	200~800V
Start-up Voltage (V)	150V
Max. Input Current(A)	36A/18A
Number of MPPT Trackers	2
AC Output Data(Grid-tied)	
Max. Apparent Output Power(VA)	16500
Rated Output Voltage(V)	380/400V
Rated Output Frequency (Hz)	50/60Hz
Maximum Output Current (A)	25A
Output Power Factor	1(0.8 leading~0.8lagging)
AC Output Data (Off-grid)	
Rated Output Power(W)	
Peak Output Power(W)	15000
Rated Output Voltage (V)	>200%,15sec
Rated Output Frequency (Hz)	380/400V
Rated Output Current(A)	50/60Hz
	24A
Efficiency	
Max.Efficiency(PV)	
Max.Efficiency(Battery)	98%
European Efficiency	94.5%
	97.5%
Protection	
PV Perverse Polarity Protection	Integrated
PV Insulation Resistance Detection	Integrated
Residual Current Detection	Integrated
Output Overcurrent Protection	Integrated
Output Short-circuit Protection	Integrated
Output Overvoltage Protection	Integrated
General Data	
Operating Temperature(°C)	-25~60°C(derating above 45°C)
Storage Temperature(°C)	-30 to 65°C
Relative Humidity	0~95%
Operating Altitude (m)	≤4000m(derating above 2000m)
Cooling method	Intelligent Forced Air Cooling
Noise(dB)	<55dB
IP Rating	IP66
Topology	High-frequency Isolation(Battery Side)
Product Size (LxWxH) (MM)	1390X749X316
Packing Size (LxWxH) (MM)	1520X870X553
Net Weight/Gross Weight (kg)	300/330
Optional Function	
Parallel function	☐ YES ☐ NO
Wi-Fi function	☐ YES ☐ NO
Grid anti-backflow CT	☐ YES ☐ NO

US-Standard 120V

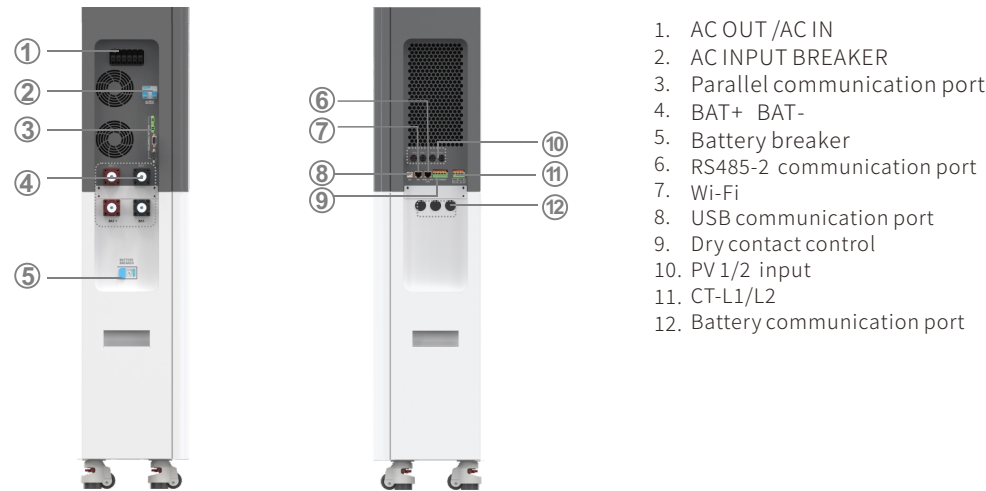


MF-7.2/12K-16KWH-US

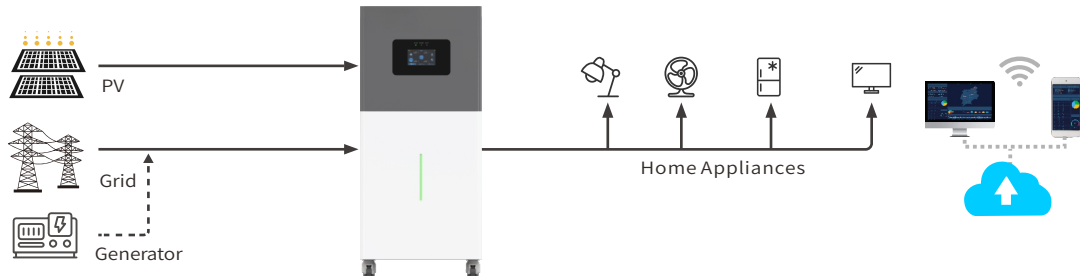
ALL IN ONE

- Less Waste, Max Storage**
High energy density and efficient energy utilization
- Safe and Powerful Technology**
LFP (LiFePO4) battery cell, electrical isolation, external short circuit protection
- Power for Your Home**
This system stores energy, detects outages, and automatically powers your home when the grid fails. Unlike generators, it provides quiet, maintenance-free backup—no fuel, no fumes. Pair it with solar panels to recharge with sunlight and keep your essentials running for days.

Interface Description



Solar System Connection



Product Specifications

Model	MF-7.2K-16KWH-US		MF-12K-16KWH-US	
Battery Data				
Battery type			LiFePO4	
Battery nominal voltage (Vdc)			51.2	
Battery capacity (Wh)			16076	
Max. charging current/output current (A)			150	
Rated charging power/Rated discharge power (W)	7200		12000	
Charging temperature(°C)			0~55	
Discharging temperature(°C)			-20~55	
AC Mode				
Rated input voltage			120(L1/N, L2/N)/240Vac(L1/L2)	
Input phase voltage range			(85Vac~140Vac)±2%	
Frequency			50Hz/60Hz (Automatic detection)	
Frequency Range			47±0.3Hz~55±0.3Hz (50Hz); 57±0.3Hz~65±0.3Hz (60Hz);	
Overload/short circuit protection			Circuit breaker	
Efficiency			>95%	
Transfer time			≥10ms	
AC reverse protection			Yes	
Maximum bypass phase overload current			2 pole, 63A/63A(L1/L2)	
Inverter Mode				
Output voltage waveform			Pure sine wave	
Rated output power (VA)	Split phase: 7200 Single phase: 6000 (limited by the wiring terminals)		Split phase: 12000 Single phase: 7200 (limited by the wiring terminals)	
Rated output power (W)	Split phase: 7200 Single phase: 6000		Split phase: 12000 Single phase: 7200 (limited by the wiring terminals)	
Power factor			1	
Rated output voltage (Vac)			120Vac (L1/N, L2/N)/240Vac(L1/L2)	
Output voltage error			±5%	
Output frequency range (Hz)			50Hz±0.3Hz/60Hz±0.3Hz	
Maximum Efficiency			>91%	
Peak power	Split phase: 10800VA Single phase: 10800VA		Split phase: 18000VA Single phase: 18000VA	
Loaded motor capability	4HP		6HP	
Output short circuit protection			Can protect, after continuous short circuit for 1 second	
Bypass circuit breaker phase specification			2 pole, 63A/63A(L1/L2)	
Rated battery input voltage			51.2V (Minimum starting voltage 44V)	
Battery voltage range	40.0Vdc~58.6Vdc±0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... settable on LCD screen)			
Power saving mode self-consumption			Load≤25W enter power-saving mode	
AC Charging				
Battery type			Lead acid or lithium battery	
Maximum charge current(can be set)	120A		160A	
Charge current error			±5Adc	
Charge voltage range			40 ~58.6Vdc	
Short circuit protection			Circuit breaker and blown fuse	
Circuit breaker phase specifications			2 pole, 63A/63A(L1/L2)	
PV Charging				
Number of MPPT groups			2	
Maximum PV open circuit voltage			500Vdc	
PV operating voltage range	90Vdc~485Vdc		90Vdc~500Vdc	
MPPT voltage range			90Vdc~450Vdc	
Battery voltage range			40-58.6Vdc	
Maximum PV input power	4500W+4500W		6000W+6000W	
Maximum PV input current	16A+16A		22A+22A	
Charging short circuit protection			Blown fuse	
Hybrid Max. Charging Current(AC+PV)				
Max charger current(can be set)	0-150A		0-220A	
General Data				
Operating temperature range			-10°C to 55°C	
Storage temperature range			-25°C to 60°C	
Humidity range			5% to 95% (Conformal coating protection)	
Noise			≤60dB	
Cooling method			Forced air cooling, variable speed of fan	
Communication interface			USB/RS485(Wi-Fi/4G)/ Dry contact control	
IP Rating			IP21	
Optional Function				
Parallel function			☐ YES	☐ NO
Wi-Fi function			☐ YES	☐ NO
Grid anti-backflow CT			☐ YES	☐ NO

BATTERY

Wall mounted & Floor Standing

5-10KWH -----47

Moveable & Floor Standing

16KWH -----48

Wall mounted & Floor Standing



MZ-5/10KWH

- More Usable Energy**
90% depth of discharge
- High Efficiency**
Full-time 1C discharge
- Flexible Installation**
Wall mounted or floor stand
- Safe&Reliable**
Lithium iron phosphate cell Cobalt free
- Perfect Compatibility**
Compatible with mainstream inverter brand

Product Specifications

Model	MZ-5KWH	MZ-10KWH
Performance		
Nominal Voltage	51.2 Vdc	51.2 Vdc
Nominal Capacity	100 Ah	200 Ah
Battery Energy	5120Wh	10240Wh
Charge Current	50 A	100 A
Charge Power	2560 W	5120 W
Discharge Current	100 A	160 A
Discharge Power	5120 W	8704 W
Short Circuit Current	350 A	540 A
Communication		
Display	Color Touchscreen	LED indicator+ LCD Display
Communication	RS232, RS485, CAN	RS232, RS485, CAN
General Specification		
Dimension (WxDxH mm)	580x420x150 mm	640X480x275 mm
Weight (Kg)	47.3 kg	83.5 kg
Installation	Floor Stand or Wall Mount	Floor Stand or Wall Mount
Operating temperature range	-20°C to 55°C	-20°C to 55°C
Operating/Storage Humidity	≤95%RH	≤95%RH
Max Operating Altitude	≤2000m	≤2000m
IP Rating	IP66	IP66
Cell Technology	LiFePO4, Lithium Iron Phosphate	LiFePO4, Lithium Iron Phosphate
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C	6000 Cycles @ 90% DOD/25°C/0.5C
Scalability	Max 15 batteries in parallel	Max 63 batteries in parallel
Warranty	5 years	5 years
Standard Compliance (More Available Upon Request)		
Certificates	CE, UN38.3	
Ordering and Deliverable Part		
Product ordering part	Battery (Cable /Wall Mount Included)	

Moveable & Floor Standing



MZ-16KWH

- More Usable Energy**
90% depth of discharge
- High Energy**
Single cell with 314Ah
- High Expansibility**
Max 63 batteries in parallel. Scalable from 16.07kWh to 1012.83kWh
- Easy Installation**
Floor stand with wheels
- Perfect Compatibility**
Compatible with major inverter brand
- Smart Display Screen**
Touchscreen-control.Real-time battery status display

Product Specifications

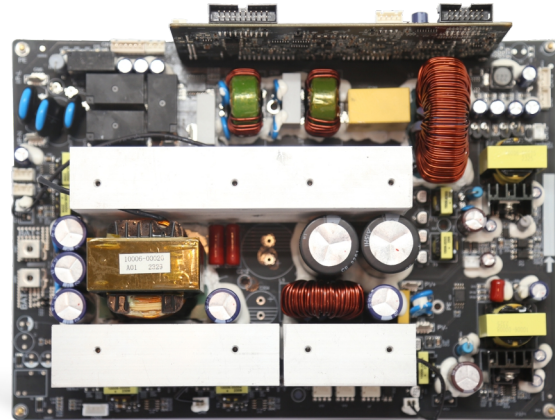
Model	MZ-16KWH
Performance	
Nominal Voltage	51.2 Vdc
Nominal Capacity	314Ah
Battery Energy	16076Wh
Charge Current	150 A
Charge Power	7680 W
Discharge Current	200 A
Discharge Power	10240 W
Short Circuit Current	540 A
Communication	
Display	LED indicator+ LCD Display
Communication	RS232, RS485, CAN
General Specification	
Dimension (WxDxH mm)	970x430x260 mm
Weight (Kg)	119 kg
Installation	Floor Stand
Operating temperature range	-20°C to 55°C
Operating/Storage Humidity	≤95%RH
Max Operating Altitude	≤2000m
IP Rating	IP66
Cell Technology	LiFePO4, Lithium Iron Phosphate
Cycle life	8000 Cycles @ 90% DOD/25°C/0.5C
Scalability	Max 63 batteries in parallel
Warranty	5 years
Standard Compliance (More Available Upon Request)	
Certificates	CE, UN38.3
Ordering and Deliverable Part	
Product ordering part	Battery (Cable /Wall Mount Included)

PCBA SKD

Inverter PCBA

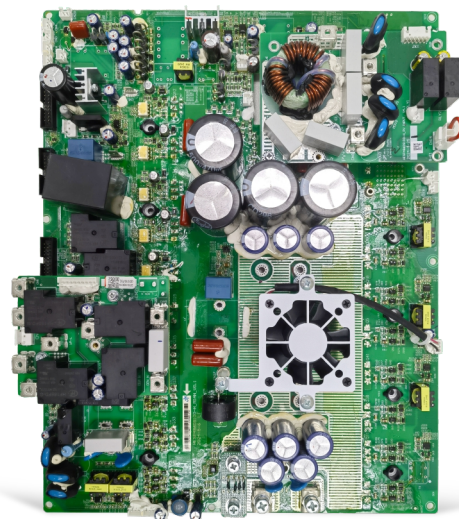
On & Off Grid Inverter PCBA -----	51
Hybrid Inverter PCBA -----	51
On Grid Inverter PCBA -----	52

PCBA SKD



On & Off Grid Inverter PCBA

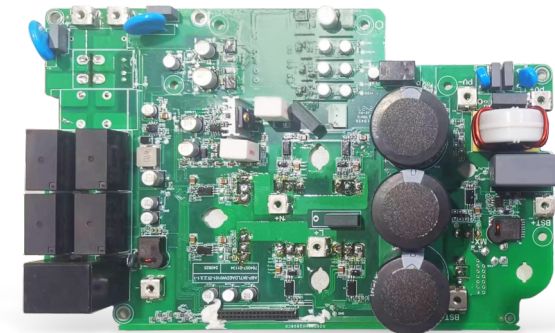
- 220/120V
- IP21/IP54
- 1.2KW-12KW



Hybrid Inverter PCBA

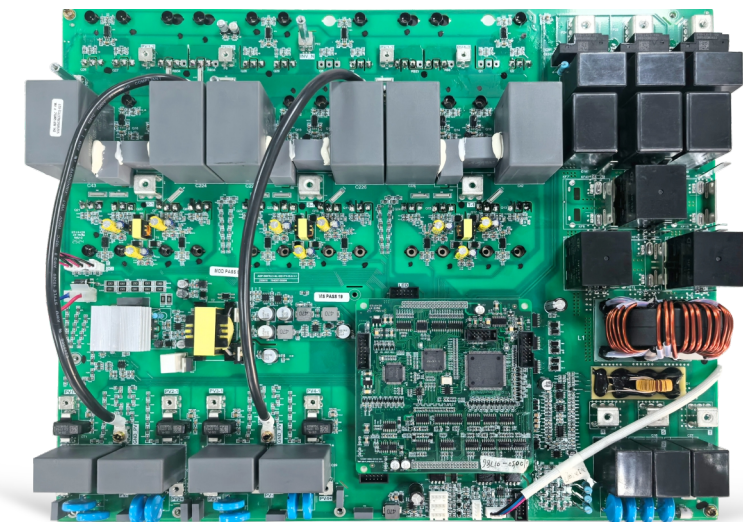
- 220/380V
- IP66
- 1.6KW-2.4KW, 6KW-15KW

PCBA SKD



On Grid Inverter PCBA

- 220V
- IP66
- 2KW-10KW



On Grid Inverter PCBA

- 380V/500V/800V
- IP66
- 36KW-320KW