



Wherever there is clean energy,
there are MUST products and services



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Must Energy Group

The technical specifications of this document are subject to change without any notice

PRODUCT CATALOGUE

Lithium Battery

50~400AH

Why Choose MUST?

MUST Renewable

We are proud to have been manufacturing portable power stations, LiFePO4 batteries, inverters, UPS, and solar charge controllers since 1998, with a team of 500 dedicated employees. MUST integrates the latest and most advanced technology and automation solutions, owning the most complete product line in the industry with reliable quality, high efficiency and stable performance.



Years Industry Experience
20+

Plants
40,000m²

R&D Staffs
100+

Patents, copyright
120+

Employees
500+

Overseas Service Center
6

Efficient Production, Operation, Quality Control



Intelligent
Manufacturing



Comprehensive
Professional Test



Lean production

Automatic integrated production line, automatic SMT production line and automatic and digital quality control and management of manufacturing key sections: online AOI inspection, FCT, ATE, Aging test. R&D tests includes Islanding detection etc.



Complete Power Solution

Committed to providing one-stop power solution, including power generation, power conversion, storage, monitoring & management and accessories.

LITHIUM BATTERY



HYBRID SOLAR INVERTER



OFF GRID SOLAR INVERTER



BALCONY ENERGY STORAGE



ON GRID INVERTER



ALL-IN-ONE SYSTEM



POWER INVERTER



UPS



SOLAR CHARGER CONTROL



1.28~5.12KWH

CE IEC UN38.3

- ## Application



Technical Data		MH17-12100	MH17-12150	MH17-12200	MH17-12280	MH17-24100	MH17-24150	MH17-24200
Nominal Voltage		12.8V				25.6V		
Nominal Capacity		100Ah	150Ah	200Ah	280Ah	100Ah	150Ah	200Ah
Nominal energy		1280Wh	1920Wh	2560Wh	3584Wh	2560Wh	3840Wh	5120Wh
Life Cycles		4000 cycles @ 80% DOD, 25°C						
Recommended Charge Voltage		14.6V				29.2V		
Recommended Charge Current		20A						
End Of Discharge Voltage		10V				20V		
Standard Method	Charge	20A	30A	40A	60A	20A	30A	40A
	Discharge	50A	75A	100A	100A	50A	75A	100A
Maximum Continuous Current	Charge	50A	75A	100A	150A	60A	75A	100A
	Discharge	100A	100A	100A	150A	100A	100A	100A
BMS Cut-Off Voltage	Charge	15.4V (3.85V/Cell)				30.8V (3.85V/Cell)		
	Discharge	9.2V (2.3V/Cell)				18.4V (2.3V/Cell)		
Temperature	Charge	0 ~ 45°C						
	Discharge	-20 ~ 55°C						
Storage Temperature		-5~35°C						
Max Scalability (in series)		4 (48V)				2 (48V)		
Shipment voltage		≥12.8V				≥25.6V		
Case Material		ABS+PC						
Machine Dimension (H*W*D) (mm)		339*185*218	502*186*243	502*186*243	358*204*268	502*186*243	522*240*218	522*240*218
Package Dimension (W*H*D) (mm)	carton box	385*230*260	520*215*280	520*215*280	375*233*305	520*215*280	545*285*288	545*285*288
N.W (kg)		12	17	21	27	21.5	36	37
G.W (kg)	carton box	13	18	22	28	22.5	37	38
* Variations in dimensions and weights may occur due to production batches.								
Charge Retention And Capacity Recovery Capability		Standard charge the battery, and then put aside at room temperature for 28d or 55°C for 7d, Charge retention rate≥90%, Recovery rate of charge≥90%						
Warranty		4 years						
Certification & Standards		CE-EMC (EN 61000-6-3+A1+AC EN IEC 61000-6-1); UN38.3/ MSDS						

LITHIUM IRON PHOSPHATE (LIFEPO4) BATTERY

MH1900 Series

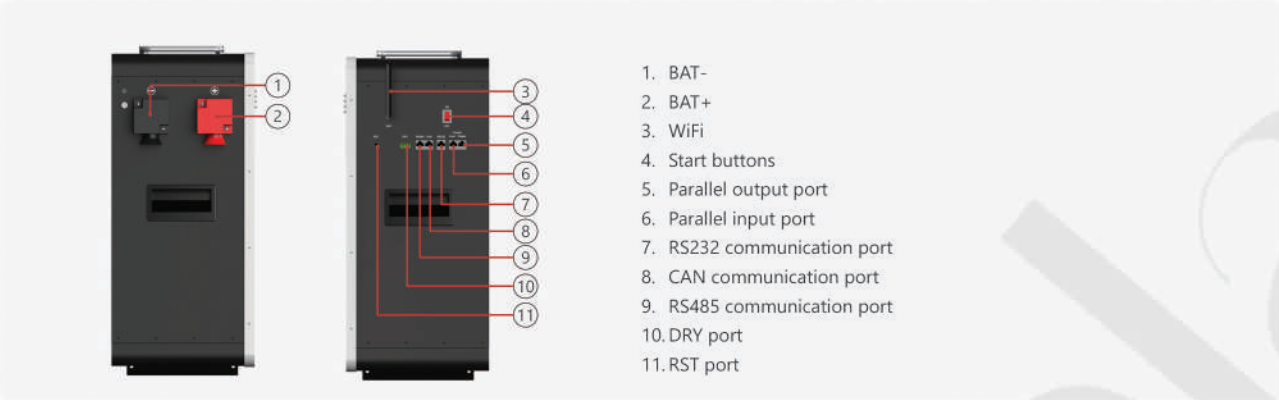
5.12~15.36KWH | WIFI

The MH1900 Series offers a versatile and reliable power solution. Combine up to 15 units for energy capacities ranging from 5120Wh to 15360Wh. With WiFi Remote Monitoring, stay connected and in control. It has excellent safety, high energy density, long lifetime, very nice temperature performance, green power newly of excellent safety and high reliability.

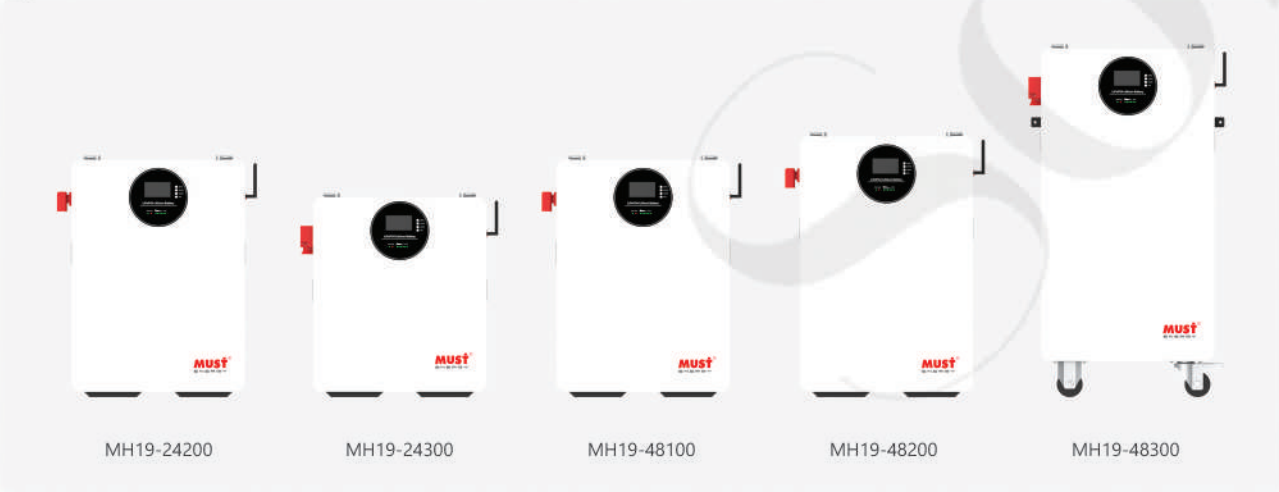


- 2-in-1: Floor-mounted, Wall-mounted
- Large capacity, high power output
- Safest lithium iron phosphate battery cell with high energy density
- Modular design: supports up to 15 units in parallel
- Support CAN & RS485 communication with mainstream inverters
- Local monitoring via LCD monitor
- Built-in WiFi Smart BMS Module

Back panel description



Type



Technical Data		MH19-24200	MH19-24300	MH19-48100	MH19-48200	MH19-48300
Nominal Voltage		25.6V		51.2V		
Nominal Capacity		200Ah	300Ah	100Ah	200Ah	300Ah
Nominal energy		5120Wh	7680Wh	5120Wh	10240Wh	15360Wh
Life Cycles		4000 cycles @ 80% DOD, 25°C				
Recommended Charge Voltage		29.2V		58.4V		
Recommended Charge Current		40A	60A	20A	40A	60A
End Of Discharge Voltage		22V		44V		
Standard Method	Charge	40A	60A	20A	40A	60A
	Discharge	100A	150A	50A	100A	150A
Maximum Continuous Current	Charge	150A	200A	100A	150A	200A
	Discharge	150A	200A	100A	150A	200A
BMS Cut-Off Voltage	Charge	29.2V (3.65V/Cell)		58.4V (3.65V/Cell)		
	Discharge	22.0V (2.75V/Cell)		44.0V (2.75V/Cell)		
Temperature	Charge	0 ~ 45°C				
	Discharge	-10 ~ 55°C				
Storage Temperature		-5~35°C				
Shipment voltage		≥25.6V		≥51.2V		
Module Parallel		Up to 15 units				
Communication		CAN2.0/RS232/RS485				
IP Protection level		IP21				
Case Material		SPCC				
Installation Mode		Floor-mounted/ Wall-mounted				Floor-mounted
Machine Dimension (H*W*D) (mm)		603*442*200	509*442*225	603*442*200	663*442*225	887*442*225
Package Dimension (W*H*D) (mm)	carton box	690*280*560	/	690*280*560	/	/
	wooden box	/	602*405*570	/	760*405*570	985*405*600
N.W (kg)		57	64	57	80	109
G.W (kg)	carton box	60	/	60	/	/
	wooden box	/	75	/	97	128
* Variations in dimensions and weights may occur due to production batches.						
Charge Retention And Capacity Recovery Capability		Standard charge the battery, and then put aside at room temperature for 28d or 55°C for 7d, Charge retention rate≥90%, Recovery rate of charge≥90%				
Warranty		4 years				
Certification & Standards		CE-EMC (EN 61000-6-3; 2007+A1; 2011+AC; 2012 EN IEC 61000-6-1; 2019) IEC62619-1:2018; IEC62619:2022; IEC62619:2017; UN38.3/ MSDS				