—— MUST ENERGY (GUANGDONG) TECHNOLOGY CO., LTD ——

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Must Energy Group

PRODUCT CATALOGUE

ENERGY STORAGE SYSTEM

—— MUST ENERGY (GUANGDONG) TECHNOLOGY CO., LTD ——

COMPANY PROFILE

1998
Founded in 1998

60000 +
Monthly Production 60000 pcs

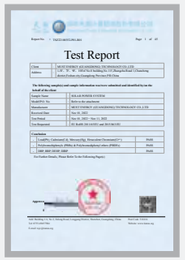
28000 m²
Factory covers an area of 28,000 square meters with automatic production technology

100 +
Must serves more than 100 countries and regions around the world

MUST ENERGY Established in Shenzhen, China in 1998. Which is a leading manufacturer of power protection products and service solutions including Uninterruptible Power Supplies (UPS), Power Inverters, Solar Inverters, Charge Controllers, Batteries and Automatic Voltage Regulators(AVR).

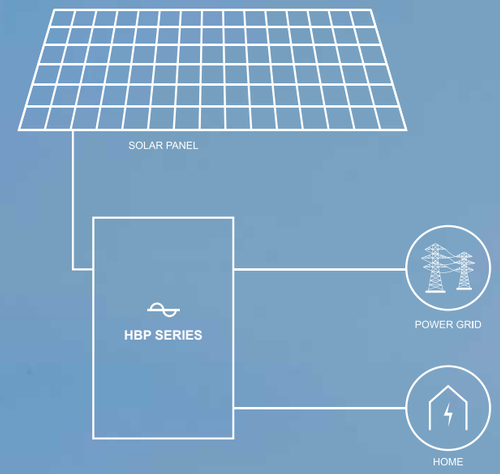
MUST has two R&D centers in Shenzhen and Foshan. It has more than 100 patents and can provide customers with advanced product development and design, comprehensive product development and testing, and automated information production. Branches and UNPROFOR, distributed around the world, provide users with professional logistics support for solutions, technical training and service support, which can serve customers more conveniently and quickly.

MUST has established an enviable reputation based on passion, quality, innovation, reliability and integrity for power protection technology, service excellence, complete customer satisfaction and confidence unmatched within the industry.



MUST®

ALL-IN-ONE ENERGY STORAGE



ALL-IN-ONE ENERGY STORAGE SOLAR SYSTEM

May the power be with you

HBP1800 Series

MUST HBP1800 series all-in-one energy storage solution, support 1KW 2KW 3KW output for different load appliances. It's based on the original cabinet design, stacked with solar energy storage lithium battery 960wh~3072wh, and built in battery protection system, fully retain the use of load power in applications of residential, school, commercial and public utility area.

1000W / 2000W / 3000W
Pure sine wave inverter

960wh~3072wh Optional
Energy storage

4000+
Charge cycle

24/7
UPS Plug & play use

11 Output ports
for DC load

Features higher capacities for greater compatibility with more power-hungry devices, and the latest in USB-C Power Delivery capable of charging larger USB devices like laptops.

Includes pre-installed solar charging optimization module that functions as a maximum power point tracker (MPPT), resulting in up to 40% faster charge times.

With LiFePO4 lithium cells, known for stability and safety, monitored by a state-of-the-art battery management system that prevents over-charge, over-current, and short circuiting.

Built in Multi safety protection that include short circuit, overload and over-temperture and error code reporting.

ALL-IN-ONE ENERGY STORAGE SOLAR SYSTEM HBP1800 SERIES

Specifications

MODEL		HBP18-1012	HBP18-2024	HBP18-3024
Inverter	Rated power	1000W	2000W	3000W
	Output voltage waveform	Pure sine wave		
	Output voltage regulation	230Vac ±5%		
	Output frequency	50Hz / 60Hz (±0.2Hz)		
	Peak efficiency	90%		
	Nominal DC input voltage	12Vdc (±0.3)	24Vdc (±0.3)	24Vdc (±0.3)
	Standby Consumption	< 25W		
PV Input	Max solar power input	900W	1800W	1800W
	PV max charging current	60A (±3A)	60A (±3A)	60A (±3A)
	Combined charging current	70A (±4A)	80A (±4A)	80A (±4A)
	Max efficiency	98.0% max		
	PV array open circuit voltage	105VDC	145VDC	145VDC
	PV Array MPPT Voltage Range	15~105V	30~120VDC	30~120VDC
AC Input	AC input voltage	230Vac ±5%		
	Acceptable input voltage range	90-280VAC		
	Nominal input frequency	50Hz / 60Hz (Auto detection)		
	Transfer time	10ms typical (UPS, VDE); 20ms typical (APL)		
AC Charge	Charging current @ Nominal input voltage	10/20A (±4A)	20A/30A (±4A)	20A/30A (±4A)
	Charging Algorithm	4-step (Li)		
Output	AC output	230Vac (Socket *4pcs)		
	Type-C	DC output*1pcs		
	USB (5V 2.4A)	DC output*4pcs		
	USB (12V 1A)	DC output*2pcs		

Lithium Battery	Energy	960Wh	1280Wh	1920Wh	2560Wh	2560Wh	3072Wh	3072Wh
	Nominal voltage	12.8V		25.6V		25.6V		
	Battery capacity	75Ah	100Ah	75Ah	100Ah	100Ah	120Ah	250Ah
	Protection board	100A		100A		140A		
	Standard charging & discharge current	50A	50A	50A	50A	50A	50A	50A
	Operation temperature — Charge	0~45℃						
	Operation temperature — Discharge	-10~60℃						
Dimension	Product Size (LxWxH) (mm)	359*234*499				/	/	/
	Packing Size (LxWxH) (mm)	/				/	/	/
	Net Weight (kg)	/	/	/	/	/	/	/
	Gross Weight (kg)	/	/	/	/	/	/	/

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

ALL-IN-ONE ENERGY STORAGE SOLAR SYSTEM

May the power be with you

HBP1800 MT Series

The HBP1800 MT power station is an exceptional device that boasts a 3072Wh or 12288Wh LiFePO4 battery pack and a pure sine wave solar inverter rated at 3000W or 5200W. Unlike its competitors, this power station is capable of powering your entire party, family camping trip, cabin workshops, or even your entire home for up to two days during unexpected power outages. With 11 outlets and a maximum capacity, it can easily power all your devices, including laptops, air conditioners and more.

3000W / 5200W
Pure sine wave inverter

3072wh / 12288wh
Energy storage

4000+
Charge cycle

24/7
UPS Plug & play use

11 Output ports
for DC load

- 3072Wh / 12288Wh LiFePO4, 4000+ Cycles to 80% Capacity
- 3KW/5.2KW Pure Sine Wave Output
- Flexible UPS Mode(24/7)
- Movable Power Station
- Off-grid Energy Storage
- Multiple Devices Can Be Loaded Simultaneously
- Flexible Recharging Way To Keep Your HBP1800 MT Always On
- App Remote Control

ALL-IN-ONE ENERGY STORAGE SOLAR SYSTEM HBP1800 MT SERIES

Specifications

MODEL			HBP18-3024MT	HBP18-5248MT
Inverter	Rated power		3000W	5200W
	Output voltage waveform		Pure sine wave	
	Output voltage regulation		230Vac ±5%	
	Output frequency		50Hz / 60Hz (±0.2Hz)	
	Peak efficiency		90%	93%
	Nominal DC input voltage		24Vdc	48Vdc
	Standby Consumption		< 25W	
PV Input	Max solar power input		1800W	5000W
	PV max charging current		60A	100A
	Combined charging current		80A	140A
	Max efficiency		98.0% max	
	PV array open circuit voltage		145Vdc	450Vdc
	PV Array MPPT Voltage Range		30~120Vdc	150~430Vdc
AC Input	AC input voltage		230Vac ±5%	
	Acceptable input voltage range		90-280Vac	170-280Vac
	Nominal input frequency		50Hz / 60Hz (Auto detection)	
	Transfer time		10ms typical (UPS, VDE); 20ms typical (APL)	
AC Charge	Charging current @ Nominal input voltage		20A/30A	80A
	Charging Algorithm		4-step (Li)	
Output	AC output		230Vac (Socket *4pcs)	
	Type-C		DC output*1pcs	
	USB (5V 2.4A)		DC output*4pcs	
	USB (12V 1A)		DC output*2pcs	
Lithium Battery	Energy		3072Wh	12288Wh
	Nominal voltage		25.6V	51.2V
	Battery capacity		120Ah	240Ah
	Protection board		50A	30-100A
	Standard charging & discharge current		50A	100A
	Operation temperature	Charge	10~50℃	
		Discharge	-20~55℃	
Dimension	Product Size (LxWxH) (mm)		/	
	Packing Size (LxWxH) (mm)		/	
	Net Weight (kg)		/	/
	Gross Weight (kg)		/	/

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HOME SOLAR ENERGY STORAGE SOLUTION

May the power be with you

HBP1800 ES Series

The HBP1800 ES energy storage system includes a 3.5kw or 5.5kw solar inverter and a lithium battery storage with optional energy ranging from 5120-10240Wh. This one-stop service system makes it more convenient for you to manage your solar home battery storage.
Our flexible modular system can be designed based on your daily household energy consumption. This class-leading power station provides you with the power to run your daily household appliances, cabin workshops, or even provide power backup for your entire house for one or two days, depending on your demands. It's the perfect emergency energy solution for villas, apartments, hotels, and shopping centers.

SAFE
Grade A LFP Battery,
Stable & Safe Smart Battery System

PRE-WIRED
Modular design,
Plug and play

WIFI MONITORING
Mobile APP monitoring

MODULAR DESIGN
Support 1 stacked ~ X stacked energy storage

- Rated power 3.5KW / 5.5KW
- Lithium Battery Modular 5120Wh
- Double layers PCB board
- Display accumulated working time
- Auto restart while AC recovery
- Overload & short-circuit protection, Battery reverse polarity protection, Deep discharge protection
- Advanced technology optimizes battery life
- Automatic line-to-battery switch over

HOME SOLAR ENERGY STORAGE SOLUTION
HBP1800 ES SERIES

Specifications

Model		HBP18-3524 ES	HBP18-5548 ES
Nominal Battery System Voltage		24VDC	48VDC
INVERTER OUTPUT	Rated Power	3500VA / 3500W	5500VA / 5500W
	Waveform	Pure Sine Wave	
	Nominal Output Voltage RMS	230V	
	Output Voltage Regulation	+10/-18%	
	Output Frequency	50Hz / 60Hz ± 0.5Hz	
	Inverter Efficiency (Peak)	>93%	
	Typical Transfer Time	<10ms , 15ms max	
AC INPUT	Voltage	230VAC	
	Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VED4105)	
	Frequency Range	50Hz / 60Hz (Auto sensing)	
BATTERY	**Note: Below Parameters base on one LiFePO4 Lithium Battery Modular**		
	Battery	25.6VDC 200AH 5120/10240Wh	51.2VDC 100AH 5120/10240Wh
	Low Battery Cutoff	23.2VDC	46.4VDC
	Low Battery Alarm	24.0VDC	48.0VDC
	Low Battery Voltage Recover	25.6VDC	51.2VDC
	High Voltage Alarm	29.0VDC	58.0VDC
	High Battery Voltage Recover	29.6VDC	59.2VDC
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	450VDC	
	PV Array MPPT Voltage Range	150~430VDC	
	Maximum Solar Charge Current	100A	120A
	Maximum AC Charge Current	80A	100A
	Maximum Charge Current	100A	120A
	Charger Voltage	28.8VDC	57.6VDC
	Charging Current	40A ± 2A	60A ± 2A
	Overcharge Protection S.D.	31VDC	62VDC
Output	AC Output	230Vac (Terminal)	
BYPASS & PROTECTION	Nominal Input Frequency	50Hz or 60Hz	
	Circuit breaker	FUSE	
	Bypass breaker rating	32A	40A
MECHANICAL SPECIFICATIONS	Dimensions (W*D*H) (mm)	512Wh: 596*220*920; 10240Wh: 596*220*1345	
	Shipping Dimensions (W*D*H) (mm)	/	
	Shipping Weight (kg)	/	/
OTHER	Operating Temperature Range	-10℃ to 50℃	
	Audible Noise	60dB MAX	
	Display	LED+LCD	
	Standard Warranty	2 year	

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HOME SOLAR ENERGY STORAGE SOLUTION

May the power be with you

HBP1100 Series

HBP1100 energy storage system is an all-in-one solution, which integrated a hybrid solar inverter & lithium battery in to one unit.

This model combines functions both off grid and on grid which could manage your solar home battery storage easily.

Flexible modular system could be designed based on house dailyconsumption.

ESS is easily to select the priority of power supply, it allows you to store the energy to self-consumption and sell to the grid. ESS is the best emergency energy solution for villas, apartments,hotels,shopping centers.

MODULAR DESIGN
Support 1~2 stacked energy storage

WIFI MONITORING
Mobile APP monitoring

PROTECTION RATING
IP65 Dust-proof and water-proof

SAVE MONEY
Peak shaving and valley filling

- + Rated power 5KW / 6KW
- + Lithium Battery Modular 5120Wh/10240Wh
- + Self-consumption and feed-back to the grid
- + Multiple Working Mode: Energy storage mode, load priority mode, power selling mode, and a high-efficiency mode (six time periods are provided for setting different modes to achieve peak-shaving and valley-filling, maximizing economic benefits)
- + Inside BMS,support to be charged and discharged according to bms requirements
- + Support to connect with generator
- + Automatic line-to-battery switch over

HOME SOLAR ENERGY STORAGE SOLUTION HBP1100 SERIES

Specifications

Model		HBP11-5048	HBP11-6048
Nominal Battery System Voltage		48VDC	
INVERTER OUTPUT	Rated Power	5000W	6000W
	Waveform	Pure Sine Wave	
	Nominal Output Voltage RMS	220~240Vac	
	Output Voltage Regulation	+10/-18%	
	Output Frequency	50Hz/60Hz	
	Inverter Efficiency (Peak)	97%	
	Typical Transfer Time	10ms, 15ms max	
AC INPUT	Voltage	230VAC	
	Voltage Range	180~280Vac	
	Frequency Range	47.5~52.5Hz / 57.5~62.5Hz	
BATTERY	**Note: Below Parameters base on one LiFePO4 Lithium Battery Modular**		
	Battery	51.2VDC 100AH 5120/10240Wh	
	Low Battery Cutoff	44VDC	
	Low Battery Alarm	46VDC	
	Low Battery Voltage Recover	48VDC	
	High Voltage Alarm	58.5VDC	
	High Battery Voltage Recover	57.5VDC	
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	500VDC	
	PV Array MPPT Voltage Range	120~500VDC	
	Maximum Solar Charge Current	100A	125A
	Maximum AC Charge Current	100A	125A
	Maximum Charge Current	100A	125A
	Charger Voltage	56.5VDC	56.5VDC
	Charging Current	100A	100A
	Charging Time	1-2 hours	1-2 hours
	Overcharge Protection S.D.	60VDC	60VDC
Output	AC Output	230Vac (Terminal)	
BYPASS & PROTECTION	Nominal Input Frequency	50Hz or 60Hz	
	Circuit breaker	FUSE	
	Output Short Circuit Protection	80A	90A
	Max Bypass Current	23A	27A
MECHANICAL SPECIFICATIONS	Dimensions (W*D*H) (mm)	/	/
	Shipping Dimensions (W*D*H) (mm)	/	/
	Shipping Weight (kg)	/	/
OTHER	Operating Temperature Range	-15℃ to 40℃	
	Ingress protection rating	IP65	
	Audible Noise	60dB MAX	
	Display	LED+LCD	
	Standard Warranty	2 year	

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HBP1800 HM Series

The MUST All-in-one ESS system is the ideal energy storage solution for home application easily. An inverter system is inbuilt to provide a one-stop service system, which can manage your solar home battery storage system more conveniently. The perfect emergency energy solution for villas, apartments, hotels, shopping centers.

Inverter Module

MUST hybrid solar inverter can output the direct current(DC) from the rooftop solar PV array into alternating current(AC), so your home or business loading can use it directly.

Battery Module

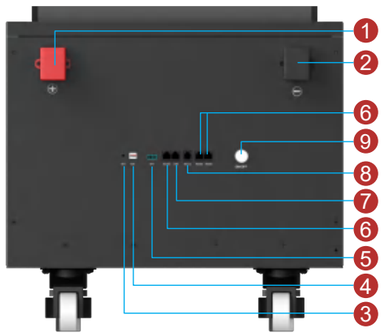
HBP1800 series is with ground-breaking LiFePO4 battery pack inside, with multi battery protection inbuilt, it's used for multi power solutions in many fields.

Specifications

MODEL		HBP18-3024 HM	HBP18-3524 HM		HBP18-5248 HM	HBP18-5548 HM
Inverter	Rated power	3000W	3500W		5200W	5500W
	Output voltage waveform	Pure sine wave				
	Output voltage regulation	230Vac±5%				
	Output frequency	50Hz or 60Hz (±0.2Hz)				
	Peak efficiency	90%			93%	
	Nominal DC input voltage	24Vdc	24Vdc		48Vdc	48Vdc
	Standby Consumption	<25W				
PV Input	Max solar power input	4000W			5000W	6000W
	PV max charging current	60A	60A	80A	100A	120A
	Combined charging current	80A	80A	100A	140A	140A
	Max efficiency	98.0% max				
	PV array open circuit voltage	450Vdc				
	PV Array MPPT Voltage Range	150~430Vdc				
AC Input	AC input voltage	230Vac ±5%				
	Acceptable input voltage range	170-280VAC				
	Nominal input frequency	50Hz / 60Hz (Auto detection)				
	Transfer time	10ms typical (UPS, VDE); 20ms typical (APL)				
AC Charge	Maximum AC charge current	80A	80A		80A	100A
	Charging Algorithm	4-step (Li)				
Output	AC output	230Vac (Terminal)				
Lithium Battery	Energy	6400Wh			12800Wh	
	Nominal voltage	25.6V			51.2V	
	Battery capacity	250Ah				
	Standard charging and discharge current	30-100A				
	Maximum continuous charging & discharge current	100A	100A		100A	120A
	Operation ambient temperature	-10~50℃				
	Storage ambient temperature	-20~55℃				
Dimension	Product Size (LxWxH)	/	/		/	/
	Packing Size (LxWxH)	/	/		/	/
	Net Weight	60	62		87	90
	Gross Weight	75	78		105	108

Pic of Input & Output Port

1. BAT+
2. AC input
3. AC output
4. PV input
5. BAT-
6. Power on/off switch



1. BAT+
2. BAT-
3. RST port
4. ADS port
5. DRY port
6. RS485 communication port
7. CAN port
8. RS232 communication port
9. ON/OFF indicator

SOLAR INVERTER WITH LITHIUM BATTERY STORAGE

May the power be with you

HBP1800 PRO Series

HBP1800 PRO energy storage system ESS solution, including 5kw 48vdc solar inverter and a lithium battery storage with 5kwh-25kwh energy optional. it is a one-stop service system can manage your solar home battery storage system more conveniently. Flexible modular system can be designed based on house daily consumption.
The perfect emergency energy solution for villas, apartments, hotels, shopping centers.

CONVENIENT APPLICATION

Easy plug-in installation

MODULAR DESIGN

Support 2 stacked ~ 5 stacked energy storage

HIGH POWER

Power for all applications

+ Stacked movable energy storage systems.
+ Rechargeable lithium batteries use safe lithium cell LiFePO4.
+ The intelligent BMS system adopts the latest battery communication system.
+ Flexible investment with 5.12kWh modular design, scalable from 5.12kWh to 25.6kWh.
+ The battery capacity can be increased freely and flexibly according to the situation of home use.
+ Reduce electricity bills and increase your energy needs for electrical self-sufficiency.

Specifications

MODEL		HBP18-52481 PRO	HBP18-52482 PRO	HBP18-52483 PRO	HBP18-52484 PRO	HBP18-52485 PRO
Inverter	Rated power	5200W				
	Output voltage waveform	Pure sine wave				
	Output voltage regulation	230Vac±5%				
	Output frequency	50Hz or 60Hz				
	Peak efficiency	93%				
	Nominal DC input voltage	48Vdc				
	Standby Consumption	< 25W				
PV Input	Max solar power input	6000W				
	PV max charging current	100A				
	Combined charging current	100A				
	Max efficiency	98.0% max				
	PV array open circuit voltage	450VDC				
	PV Array MPPT Voltage Range	150V-430VDC				
AC Input	AC input voltage	230Vac ±5%				
	Acceptable input voltage range	170~280VAC				
	Nominal input frequency	50Hz / 60Hz (Auto detection)				
	Transfer time	10ms typical (UPS, VDE); 20ms typical (APL)				
AC Charge	Charging current @ Nominal input voltage	80A				
	Charging Algorithm	4-step (Li)				
Output	AC output	230Vac (Terminal)				
Lithium Battery	Energy	5120Wh	10240Wh	15360Wh	20480Wh	25600Wh
	Nominal voltage	51.2V				
	Battery capacity	100Ah	200Ah	300Ah	400Ah	500Ah
	Standard charging and discharge current	100A				
	Maximum continuous charging & discharge current	100A				
	Operation ambient temperature – Charge	0~45°C				
	Operation ambient temperature – Discharge	-20~55°C				
Dimension	Product Size (LxWxH)	/	/	/	/	/
	Packing Size (LxWxH)	/	/	/	/	/
	Net Weight	/	/	/	/	/
	Gross Weight	/	/	/	/	/

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SOLAR INVERTER WITH LITHIUM BATTERY STORAGE

May the power be with you

HBP1800 LV Series

HBP1800 LV energy storage system ESS solution, including 3kw 48vdc solar inverter and a lithium battery storage with 9.6kwh energy optional. it is a one-stop service system can manage your solar home battery storage system more conveniently. Flexible modular system can be designed based on house daily consumption.
The perfect emergency energy solution for villas, apartments, hotels, shopping centers.

Inverter Module

Using the 120V High Frequency Off Grid Solar Inverter can output the direct current(DC) from the rooftop solar PV array into alternating current(AC), so your home or business loading can use it directly.

Battery Module

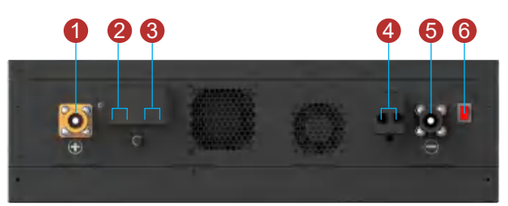
HBP1800 series is with ground-breaking LiFePO4 battery pack inside, with multi battery protection inbuilt, it's used for multi power solutions in many fields.

SOLAR INVERTER WITH LITHIUM BATTERY STORAGE
HBP1800 LV SERIES (AC:110V 3KW)

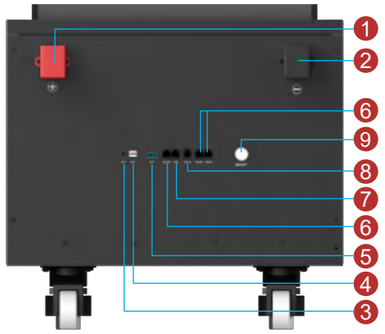
Specifications

MODEL		HBP18-3048 LV
Inverter	Rated power	3000W
	Output voltage waveform	Pure sine wave
	Output voltage regulation	(100Vac-120Vac)±5%
	Output frequency	50Hz or 60Hz (±0.2Hz)
	Peak efficiency	93%
	Nominal DC input voltage	36Vdc
	Standby Consumption	<25W
PV Input	Max solar power input	3000W
	PV max charging current	80A
	Combined charging current	140A
	Max efficiency	98.0% max
	PV array open circuit voltage	145Vdc
	PV Array MPPT Voltage Range	30~120Vdc
AC Input	AC input voltage	120Vac ±5%
	Acceptable input voltage range	90~145VAC(UPS), 60~145VAC(APL), 107~132VAC(VDE4105)
	Nominal input frequency	50Hz / 60Hz (Auto detection)
	Transfer time	10ms typical (UPS, VDE); 20ms typical (APL)
AC Charge	Charging current @ Nominal input voltage	60A
	Charging Algorithm	4-step (Li)
Output	AC output	Terminal
Lithium Battery	Energy	9600Wh
	Nominal voltage	38.4V
	Battery capacity	250Ah
	Standard charging and discharge current	100A
	Maximum continuous charging & discharge current	100A
	Operation ambient temperature	-10~50°C
	Storage ambient temperature	-20~55°C
Dimension	Product Size (LxWxH)	/
	Packing Size (LxWxH)	/
	Net Weight	87
	Gross Weight	105

Pic of Input & Output Port



1. BAT+
2. AC input
3. AC output
4. PV input
5. BAT-
6. Power on/off switch



1. BAT+
2. BAT-
3. RST port
4. ADS port
5. DRY port
6. RS485 communication port
7. CAN port
8. RS232 communication port
9. ON/OFF indicator

HBP1700 Series

The MUST HBP1700 Series is with a Front Terminal Gel VRLA Battery energy storage, rated pure sine wave AC inverter 1000W/2000W/3000W. Versatile energy storage system as your home strong back up, reliable access to power sources anytime. This class-leading power station brings you the power to run your daily consumes, family camping trip, cabin workshops, or even whole house for a day or two days power back up depending on your demands.

1000W / 2000W / 3000W
Pure sine wave inverter

24/7
UPS Plug & play use

10 Output ports
for diffenert loads

Features higher capacities for greater compatibility with more power-hungry devices, and the latest in USB-C Power Delivery capable of charging larger USB devices like laptops.

Includes pre-installed solar charging optimization module that functions as a maximum power point tracker (MPPT), resulting in up to 40% faster charge times.

Built in Multi safety protection that include short circuit, overload and over-temperture and error code reporting.

SOLAR ENERGY STORAGE SYSTEM HBP1700 SERIES

MUST

Specifications

MODEL			HBP17-1012		HBP17-2024		HBP17-3024	
Inverter	Rated power		1000W		2000W		3000W	
	Output voltage waveform		Pure sine wave					
	Output voltage regulation		230Vac±5%					
	Output frequency		50Hz or 60Hz (±0.2Hz)					
	Peak efficiency		93%					
	Nominal DC input voltage		12Vdc		24Vdc		24Vdc	
	Standby Consumption		<25W					
PV Input	Max solar power input		625W		1500W		2000W	
	PV max charging current		60A					
	Combined charging current		70A		80A			
	Max efficiency		98.0% max					
	PV array open circuit voltage		105Vdc		145Vdc		145Vdc	
	PV Array MPPT Voltage Range		15~105Vdc		30~120Vdc		30~120Vdc	
AC Input	AC input voltage		230Vac ±5%					
	Acceptable input voltage range		90-280VAC (170-280VAC)					
	Nominal input frequency		50Hz / 60Hz (Auto detection)					
	Transfer time		10ms typical (UPS, VDE); 20ms typical (APL)					
AC Charge	Charging current @ Nominal input voltage		10A-20A		20A-30A		20A-30A	
Output	AC output		230Vac (Socket *3pcs)					
	Type-C		DC output*1pcs					
	USB (5V 2.4A)		DC output*4pcs					
	USB (12V 1A)		DC output*2pcs					
Battery	Energy		1200Wh	1800Wh	2400Wh	3600Wh	2400Wh	3600Wh
	Nominal voltage		12V		24V		24V	
	Battery capacity		100Ah	150Ah	100Ah	150Ah	100Ah	150Ah
	Operation ambient temperature	Charge	-20~50°C					
		Discharge	-20~50°C					
		Storage	-20~50°C					
Dimension	Product Size (LxWxH)		522*262*461		524*306*717.5			
	Packing Size (LxWxH)		624*364*506		626*408*762			
	Net Weight		46	57.5	/	106	/	108
	Gross Weight		58	69.5	/	123	/	125

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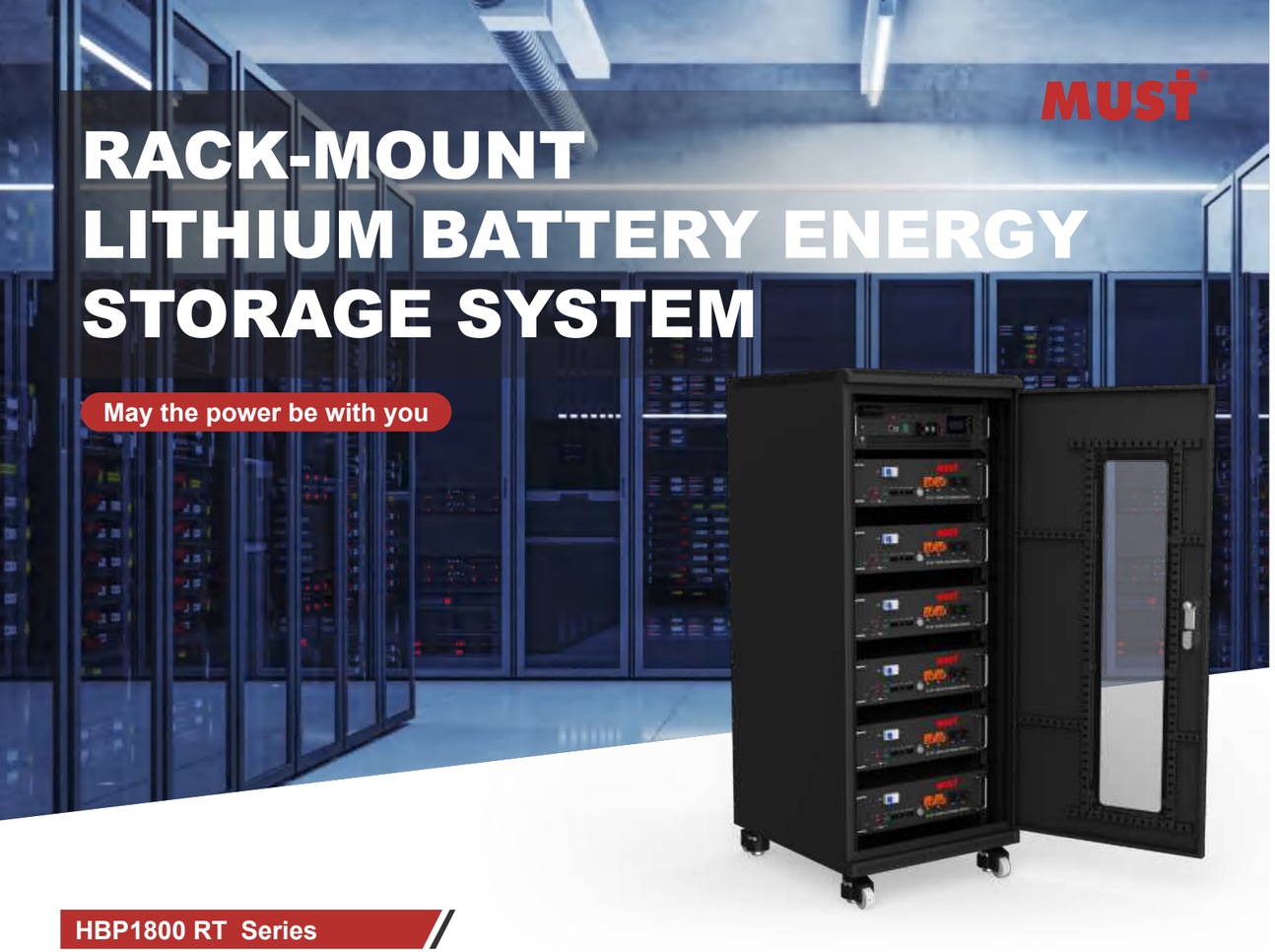


RACK-MOUNT LITHIUM BATTERY ENERGY STORAGE SYSTEM

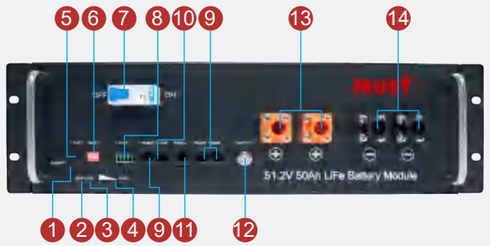
May the power be with you

HBP1800 RT Series

MUST 19” Rack-Mount 3U lithium battery energy storage system is an all-in-one solar and storage solution which integrates the solar inverter and LiFePO4 battery enclosure into a pre-wired modular system for easier and faster installation.

+ Modular, Scalable & Proven Performance
+ Parallelable for up to 6 battery packs
+ Non-Toxic & Non-Hazardous Cobalt-Free LFP Chemistry
+ The ESS is pre-wired and factory tested to enable quick installation
+ BMS has protection functions including over-discharge, over-charge, over-current, and high/low temperature

Pic of Input & Output Port



1. ON/OFF indicator
2. RUN indicator
3. Alarm indicator
4. SOC indicator
5. RST port
6. ADS switch
7. Power switch
8. DRY port
9. RS485 communication port
10. CAN port
11. RS232 communication port
12. Start buttons
13. BAT+
14. BAT-

Specifications

MODEL		HBP1800 RT		
Inverter	Rated power	5200W		
	Output voltage waveform	Pure sine wave		
	Output voltage regulation	230VAC ±5%		
	Output frequency	50Hz or 60Hz (±0.2Hz)		
	Peak efficiency	93%		
	Nominal DC input voltage	48Vdc		
	Standby Consumption	< 25W		
PV Input	Max solar power input	4000W		
	PV max charging current	80A		
	Combined charging current	80A		
	Max efficiency	98% max		
	PV array open circuit voltage	450VDC		
	PV Array MPPT Voltage Range	150~430VDC		
AC Input	AC input voltage	230VAC ±5%		
	Acceptable input voltage range	170~280VAC		
	Nominal input frequency	50Hz / 60Hz (Auto detection)		
	Transfer time	10ms typical (UPS, VDE); 20ms typical (APL)		
AC Charge	Charging current @ Nominal input voltage	60A		
	Charging Algorithm	4-step (Li)		
Lithium Battery	Energy	10Kwh	20Kwh	30Kwh
	Nominal voltage	51.2V		
	Battery capacity	51.2V 100Ah 3U Module×2	51.2V 100Ah 3U Module×4	51.2V 100Ah 3U Module×6
	Standard charging and discharge current	100A		
	Maximum continuous charging & discharge current	100A		
	Battery Protection	BMS Battery Management System Dynamic Protection		
	Operation ambient temperature	0~45°C		
	Storage ambient temperature	-20~55°C		
Dimension	Product Size (LxWxH) (mm)	/	/	/
	Package Size (LxWxH) (mm)	/	/	/
	Net Weight	/	/	/
	Gross Weight	/	/	/

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HBP3000 Series

The MUST HBP3000 Series is with a ground-breaking LiFePO4 battery pack 6.4kwh or 12.8kwh energy storage, pure sine wave solar inverter inbuilt. Versatile energy storage system as your home strong back up, reliable access to power sources anytime. This class-leading power station brings you the power to run your daily consumes, family camping trip, cabin workshops, or even whole house for a day or two days power back up depending on your demands.

Inverter Module

Low Frequency Solar Inverter can output the direct current(DC) from the rooftop solar PV array into alternating current(AC), so your home or business loading can use it directly.

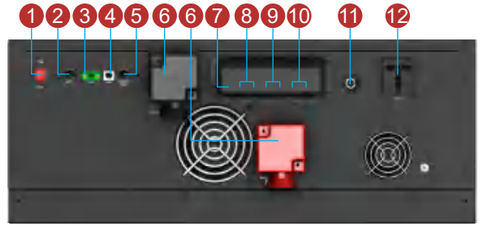
Battery Module

The MUST HBP3000 Series is with a ground-breaking LiFePO4 battery pack, that offers multiple energy storage options through, which further simplifies installation and O&M with multiple smart functions.

Specifications

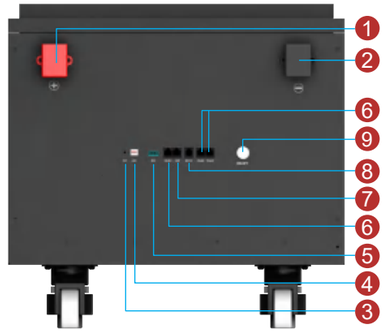
MODEL		HBP30-1524	HBP30-2024	HBP30-3024	HBP30-5048	HBP30-6048
Inverter	Rated power	1500	2000W	3000W	5000W	6000W
	Output voltage waveform	Pure sine wave				
	Output voltage regulation	220V/230V/240V ±10%				
	Output frequency	50Hz or 60Hz (±0.2Hz)				
	Peak efficiency	88%				
	Nominal DC input voltage	24Vdc			48Vdc	
	Standby Consumption	< 2W				
PV Input	Max solar power input	2500W			5000W	
	PV max charging current	80A				
	Combined charging current	80A				
	Max efficiency	98% max				
	PV array open circuit voltage	145V				
	PV Array MPPT Voltage Range	32~130VDC			64~130VDC	
AC Input	AC input voltage	230Vac ±5%				
	Acceptable input voltage range	155~280VAC(For personal computers)				
	Nominal input frequency	50Hz / 60Hz (Auto detection)				
	Transfer time	10ms(max)				
AC Charge	Charging current @ Nominal input voltage	25A	30A	40A	35A	40A
	Charging Algorithm	4-step (Li)				
Output	AC output	Terminal & Socket (10A max)				
Lithium Battery	Energy	6400wh			12800wh	
	Nominal voltage	25.6V			51.2V	
	Battery capacity	250Ah				
	Standard charging and discharge current	100A				
	Maximum continuous charging & discharge current	100A				
	Operation ambient temperature — Charge	-10~50°C				
	Operation ambient temperature — Discharge	-20~55°C				

Pic of Input & Output Port



1. On/off switch
2. BTS
3. AGS
4. USB
5. Remote port
6. Battery input
7. GND
8. AC input
9. AC output
10. PV input
11. Charger input protect
12. AC output (socket 10A max)

1. BAT+
2. BAT-
3. RST port
4. ADS port
5. DRY port
6. RS485 communication port
7. CAN port
8. RS232 communication port
9. ON/OFF indicator



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HBP3000 LV Series

The MUST HBP3000 LV Series is with a ground-breaking LiFePO4 battery pack 6.4kwh and 12.8kwh energy storage, pure sine wave solar inverter inbuilt. Versatile energy storage system as your home strong back up, reliable access to power sources anytime. This class-leading power station brings you the power to run your daily consumes, family camping trip, cabin workshops, or even whole house for a day or two days power back up depending on your demands.

Inverter Module

Low Frequency Solar Inverter can output the direct current(DC) from the rooftop solar PV array into alternating current(AC), so your home or business loading can use it directly.

Battery Module

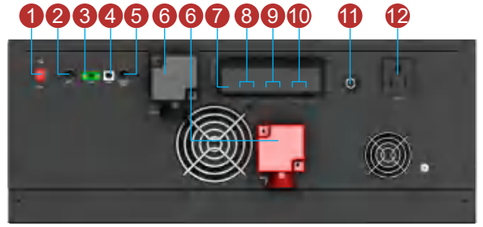
The MUST HBP3000 LV Series is with a ground-breaking LiFePO4 battery pack, that offers multiple energy storage options through, which further simplifies installation and O&M with multiple smart functions.

SOLAR INVERTER WITH LITHIUM BATTERY SOLUTION
HBP3000 LV SERIES (AC:110V 2-6KW)

Specifications

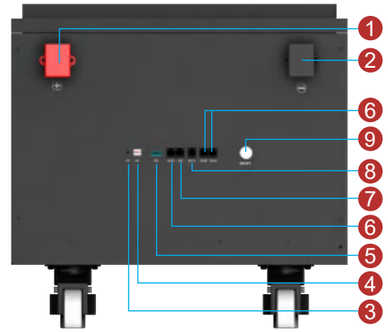
MODEL			HBP30-2024 LV	HBP30-3024 LV	HBP30-5048 LV	HBP30-6048 LV
Inverter	Rated power		2000W	3000W	5000W	6000W
	Output voltage waveform		Pure sine wave			
	Output voltage regulation		110V/115V/120V ±10%			
	Output frequency		50Hz or 60Hz (±0.2Hz)			
	Peak efficiency		88%			
	Nominal DC input voltage		24Vdc		48Vdc	
	Standby Consumption		< 2W			
PV Input	Max solar power input		2500W		5000W	
	PV max charging current		80A			
	Combined charging current		80A			
	Max efficiency		98% max			
	PV array open circuit voltage		145V			
	PV Array MPPT Voltage Range		32~130VDC		64~130VDC	
AC Input	AC input voltage		120Vac ±5%			
	Acceptable input voltage range		96~132VAC			
	Nominal input frequency		50Hz / 60Hz (Auto detection)			
	Transfer time		10ms(max)			
AC Charge	Charging current @ Nominal input voltage		30A	40A	35A	40A
	Charging Algorithm		4-step (Li)			
Output	AC output		Terminal & Socket (10A max)			
Lithium Battery	Energy		6400wh		12800wh	
	Nominal voltage		25.6V		51.2V	
	Battery capacity		250Ah			
	Standard charging and discharge current		100A			
	Maximum continuous charging & discharge current		100A			
	Operation ambient temperature	Charge	-10~50°C			
		Discharge	-20~55°C			

Pic of Input & Output Port



1. On/off switch
2. BTS
3. AGS
4. USB
5. Remote port
6. Battery input
7. GND
8. AC input
9. AC output
10. PV input
11. Charger input protect
12. AC output (socket 10A max)

1. BAT+
2. BAT-
3. RST port
4. ADS port
5. DRY port
6. RS485 communication port
7. CAN port
8. RS232 communication port
9. ON/OFF indicator



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HBP3300 TLV Series

The MUST HBP3300 TLV Series is with a ground-breaking LiFePO4 battery pack 6.4kwh and 12.8kwh energy storage, pure sine wave solar inverter inbuilt. Versatile energy storage system as your home strong back up, reliable access to power sources anytime. This class-leading power station brings you the power to run your daily consumes, family camping trip, cabin workshops, or even whole house for a day or two days power back up depending on your demands.

Inverter Module

Low frequency solar single phase inverter can output the direct current(DC) from the rooftop solar PV array into alternating current(AC), so your home or business loading can use it directly.

Battery Module

The MUST HBP3300 TLV Series is with a ground-breaking LiFePO4 battery pack, that offers multiple energy storage options through, which further simplifies installation and O&M with multiple smart functions.

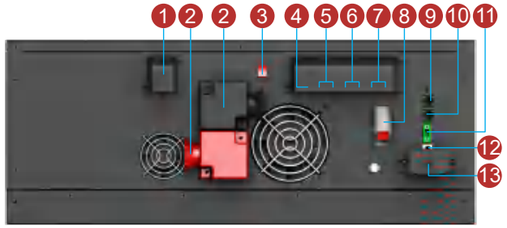
ALL IN ONE ESS SOLAR INVERTER WITH LITHIUM BATTERY SOLUTION

HBP3300 TLV SERIES (AC:110V+110V 2-6KW)

Specifications

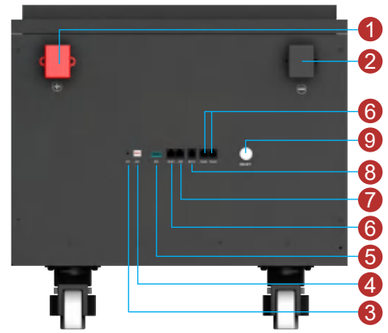
MODEL		HBP33-2024 TLV	HBP33-3024 TLV	HBP33-5048 TLV	HBP33-6048 TLV
Inverter	Rated power	2000W	3000W	5000W	6000W
	Output voltage waveform	Pure sine wave			
	Output voltage regulation	100V / 110V / 120VAC (200V/220V/ 240VAC, L+L) ±10%			
	Output frequency	50Hz or 60Hz (±0.2Hz)			
	Peak efficiency	85%			
	Nominal DC input voltage	24Vdc		48Vdc	
	Standby Consumption	< 2W			
PV Input	Max solar power input	2500W		5000W	
	PV max charging current	80A			
	Combined charging current	80A			
	Max efficiency	98% max			
	PV array open circuit voltage	145VDC			
	PV Array MPPT Voltage Range	30~130VDC		64~130VDC	
AC Input	AC input voltage	200/220/240VAC			
	Acceptable input voltage range	155~280VAC			
	Nominal input frequency	50Hz / 60Hz (Auto detection)			
	Transfer time	10ms(max)			
AC Charge	Charging current @ Nominal input voltage	30A	40A	35A	40A
	Charging Algorithm	4-step (Li)			
Output	AC output	Terminal & Socket (10A max)			
Lithium Battery	Energy	6400wh		12800wh	
	Nominal voltage	25.6V		51.2V	
	Battery capacity	250Ah			
	Standard charging and discharge current	100A			
	Maximum continuous charging & discharge current	100A			
	Operation ambient temperature	-10~50℃			
	Storage ambient temperature	-20~55℃			
Dimension	Product Size (LxWxH) (mm)	/	/	/	/
	Package Size (LxWxH) (mm)	/	/	/	/
	Net Weight	73	75	/	/
	Gross Weight	88	90	/	/

Pic of Input & Output Port



1. AC output (socket 10A max)
2. Battery input
3. On/off switch
4. GND
5. AC input
6. AC output
7. PV input
8. Charger input protect
9. BTS
10. AGS
11. USB
12. Remote port
13. WiFi port (optional)

1. BAT+
2. BAT-
3. RST port
4. ADS port
5. DRY port
6. RS485 communication port
7. CAN port
8. RS232 communication port
9. ON/OFF indicator



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HBP 1500 Series

The HBP1500 series is a versatile portable power station suitable for powering various household appliances such as TVs, stereos, laptops, and desktop computers. It is equipped with a built-in 4-series LiFePO4 battery that has a capacity of either 600Wh or 1200Wh. This makes it a great choice for outdoor camping as well.

HIGH CAPACITY
Long battery life.
Meet the needs of indoor and outdoor.

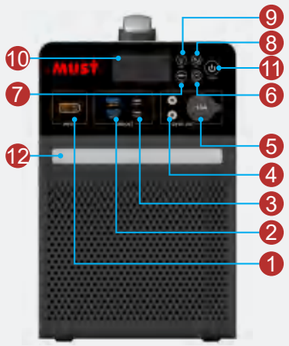
PURE SINE WAVE
Same as the household power.
Doesn't damage electrical equipment.

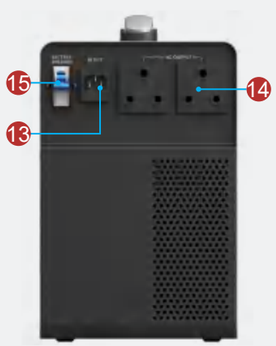
STRONG COMPATIBILITY
Multiple outputs can supply power for various electrical appliances.

SAFETY
Multiple quality inspection to ensure power safety.

HD SCREEN
The power status is clear at a glance.

Pic of Input & Output Ports





1. DC input port
2. USB-A 5V 3.1A ×2pcs
3. USB TypeC (PD 18W + PD 60W)
4. DC12V/10A output(5521) ×2pcs
5. Cigarette lighter interface 12V 10A
6. DC power button
7. USB power button
8. AC power button
9. LED power button
10. LCD screen
11. Power Switch
12. AC input
13. LED light
14. AC output ×2pcs
15. Battery DC circuit breaker

Specifications

Model		HBP15-1012	HBP15-2024
Nominal Battery System Voltage		12VDC	24VDC
INVERTER OUTPUT	Rated Power	1000VA / 600W	2000VA / 1200W
	Waveform	Pure Sine Wave	
	Nominal Output Voltage RMS	230V	
	Output Voltage Regulation	+10/-18%	
	Output Frequency	50Hz / 60Hz ± 0.5Hz	
	Inverter Efficiency (Peak)	>85%	
	Line Mode Efficiency	>95%	
	Typical Transfer Time	<10ms , 15ms max	
AC INPUT	Voltage	230VAC	
	Voltage Range	184 ~ 276 VAC	
	Frequency Range	50Hz / 60Hz (Auto sensing)	
BATTERY	**Note: Below Parameters base on 4 series LiFePO4 Lithium Battery Pack**		
	Battery	12.8VDC 45AH 0.6kWH	25.6VDC 45AH 1.2kWH
	Low Battery Cutoff	11.6VDC	23.2VDC
	Low Battery Alarm	12.0VDC	24.0VDC
	Low Battery Voltage Recover	12.8VDC	25.6VDC
	High Voltage Alarm	14.5VDC	29.0VDC
	High Battery Voltage Recover	14.8VDC	29.6VDC
CHARGER	Charger Voltage	14.4VDC	28.8VDC
	Charging Current	15A ± 2A	10A ± 2A
	Charging Time	3 ~ 4 hours	4 ~ 5 hours
	Overcharge Protection S.D.	15.5VDC	31VDC
DC Output	USB	2 x USB-A 5V 3.1A	2 x USB TypeC (PD18W+PD60W)
	DC	1 x 12VDC smoke DC + 2 x 12VDC (120W max)	
	LED	3W	
BYPASS & PROTECTION	Nominal Input Frequency	50Hz or 60Hz	
	Overload Protection (SMPS Load)	FUSE	
	Output Short Circuit Protection	7A	10A
	Max Bypass Current	7A	10A
MECHANICAL SPECIFICATIONS	Dimensions (W*H*D) (mm)	202 x 320 x 300	
	Shipping Dimensions (W*H*D) (mm)	/	
	Shipping Weight (kg)	/	/
OTHER	Operation Temperature Range	0℃ to 40℃	
	Audible Noise	60dB MAX	
	Display	LED+LCD	
	Standard Warranty	1 year	

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HBP 1800 OS Series

The HBP1800 OS series is specifically designed for office use, providing a reliable and efficient power source. However, it is also versatile enough to power various household appliances, including PCs, laptops, stereos, and desktop computers. Equipped with a built-in 4-series LiFePO4 battery, the HBP1800 OS has a capacity of either 960Wh or 3072Wh, making it an ideal portable power station for a range of needs.

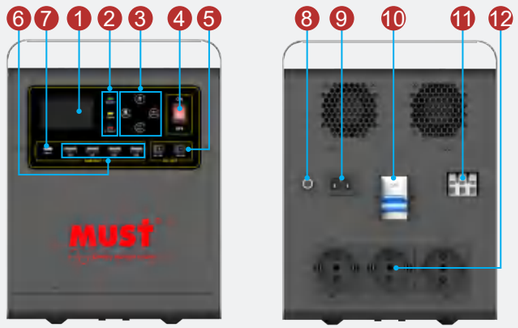
OUTPUT
Huge capacity
1000W/3000W Output

PURE SINE WAVE
Same as the household power. Doesn't damage electrical equipment.

CHARGING OPTIONS
10 Output Ports Meet Multiple Devices

HD SCREEN
Smart Touchble LCD Display

Pic of Input & Output Ports



1. LCD Screen
2. LED Light
3. Operation button
4. Power Switch
5. DC12V/10A output(5521) ×2pcs
6. USB-A 5V ×4pcs
7. USB TypeC (PD 18W)
8. Charger input protect
9. AC input
10. Input breaker
11. PV input
12. AC output ×3pcs

ALL-IN-ONE BACKUP PORTABLE SOLAR POWER STATION

HBP1800 OS SERIES

Specifications

Model		HBP18-1012 OS	HBP18-3024 OS
Nominal Battery System Voltage		12VDC	24VDC
INVERTER OUTPUT	Rated power	1000W	3000W
	Output voltage waveform	Pure Sine Wave	
	Output voltage regulation	230V ±5%	
	Output frequency	50Hz / 60Hz (±0.2Hz)	
	Peak efficiency	90%	
	Nominal DC input voltage	12V (±0.3)	24V (±0.3)
	Standby Consumption	< 25W	
PV Input	Max solar power input	900W	1800W
	PV max charging current	60A (±3A)	60A (±3A)
	Combined charging current	70A (±4A)	80A (±4A)
	Max efficiency	98.0% max	
	PV array open circuit voltage	105VDC	145VDC
	PV Array MPPT Voltage Range	15~105V	30~120VDC
AC Input	AC input voltage	230Vac ±5%	
	Acceptable input voltage range	90-280VAC	
	Nominal input frequency	50Hz / 60Hz (Auto detection)	
	Transfer time	10ms typical (UPS, VDE); 20ms typical (APL)	
AC Charge	Charging current @ Nominal input voltage	10/20A (±4A)	20A/30A (±4A)
	Charging Algorithm	4-step (Li)	
Output	AC output	230Vac (Socket *4pcs)	
	USB TypeC	PD 18W	
	USB-A 5V	DC output*4pcs	
Lithium Battery	Energy	960Wh / 1280Wh	2560Wh / 3072Wh
	Nominal voltage	12.8V	25.6V
	Battery capacity	75Ah / 100Ah	100Ah / 120Ah
	Protection board	100A	140A
	Standard charging & discharge current	50A / 50A	50A / 50A
	Operation temperature – Charge	0℃ to 45℃	
	Operation temperature – Discharge	-10℃ to 60℃	
MECHANICAL SPECIFICATIONS	Dimensions (W*H*D) (mm)	225*295*363	288*348*490
	Shipping Dimensions (W*H*D) (mm)	/	/
	Shipping Weight (kg)	/ /	/ /

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