

# RACK-MOUNT LITHIUM BATTERY ENERGY STORAGE SYSTEM

**MUST**

May the power be with you

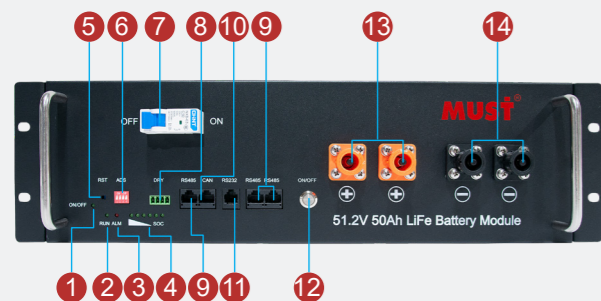


## HBP1800 RT Series

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

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### 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	/	/	/

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