

Model: MF51100 BATTERY



HBC® is a new range of Residential Battery Energy Storage System, with participation of PV, battery, loads and grid system for energy management.



Modular Design



Easy Installation



Excellent Safe LiFePO4 Battery

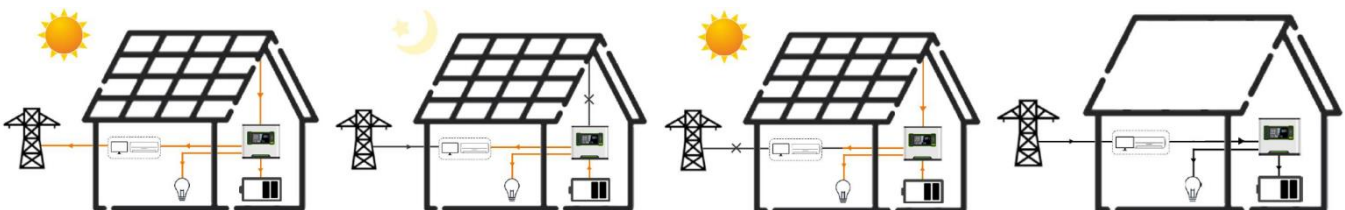


Long Lifespan

Operation Modes

The energy produced by PV system shall be used to optimize self-consumption, excess power charges battery and the rest power could be exported to the grid.

Battery shall discharge to support loads when PV power is insufficient to meet self-consumption. If battery power is not sufficient, the system will take power from grid to support loads.



Technical Data	
Model	MF51100
General	
Cell Chemistry	LFP (LiFePO4)
Cell Model	32700
Dimension (W x H x D)	406 x 239 x 590 mm
Weight	56 kg
Ingress Rating	IP20 (Indoor)
Operating Temperature Range	-10 °C ~ +50 °C *
Relative Humidity	15 ~ 85%
Max. Operating Altitude	2000 m (>2000 Derating)
Electrical	
Module Capacity	4.92 kWh
Usable Capacity	4.67 kWh
Depth of Discharge (DoD)	95%
Nominal Voltage	51.2 V
Voltage Range	43.2 ~ 58.4 V
Max. Charging/Discharging Current	100 A (1C)
Cycle Life	6000 **
BMS	
Modules Connection	1 ~ 6 in parallel
Capacity	4.9 / 9.8 / 14.7 / 19.7 / 24.6 / 29.5 kWh
Usable Capacity	4.7 / 9.3 / 14.0 / 18.7 / 23.3 / 28.0 kWh
Monitoring Parameters	System Voltage, Current, Cell Voltage, Cell Temperature, PCB Temperature
Communication	CAN & RS485
Certification	
Transportation	UN38.3
Safety	CE, IEC 62619 (Cell), IEC 62619 (Pack)
Warranty	10 years 70% EOL capacity

* When the temperature is below 0 °C or above 40 °C, the performance will be limited.

** Under specific test conditions.



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