MARS SERIES

RESIDENTIAL ENERGY STORAGE SYSTEM

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MARS RESIDENTIAL ENERGY STORAGE SYSTEM

10.2kWh~30.7kWh

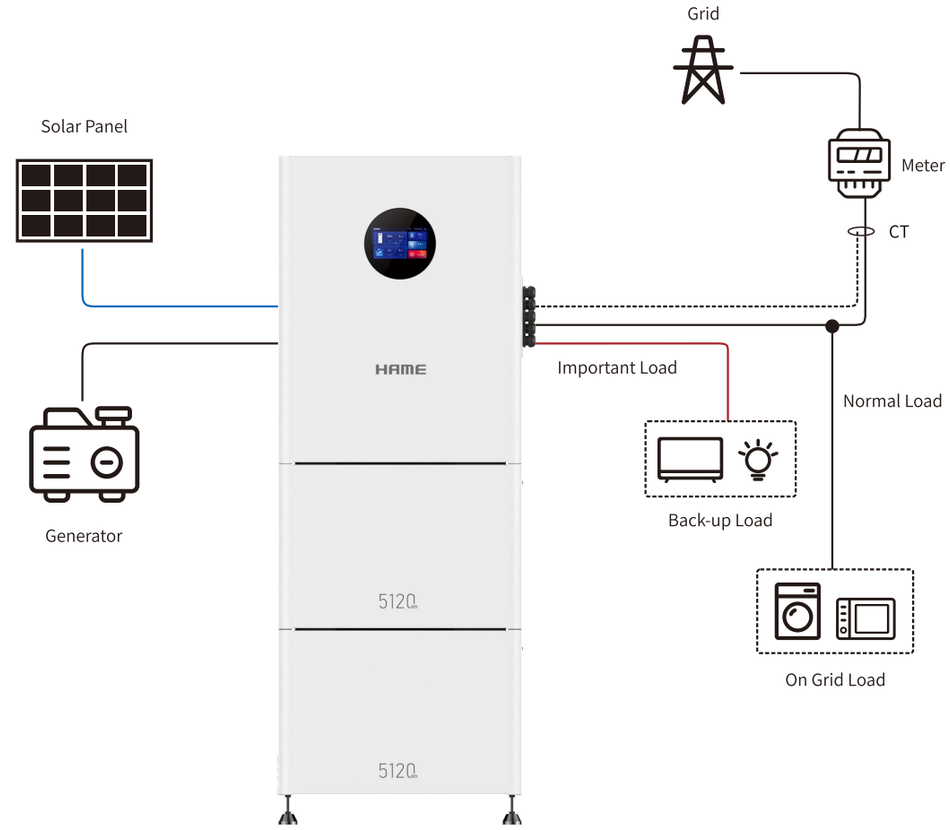
ADVANTAGES

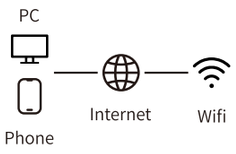
- Multi-machine parallel connection supported. Maximum Power to 30.7 kWh.
- LiFePO$_4$ cells, 5120Wh supplied by one battery module, Max. 6 units capacity is 30.7kWh.
- 80% capacity powered within 1-hour charging time by PV 7.5kW-12kW fast charging, 5.5kVA-8.8kVA AC Output supported.
- Cable-free stacked design by connector.
- Anti-Islanding effect supported that can shut them off and disconnect them from the grid during a power outage.
- App Remote Control & Monitor supported.

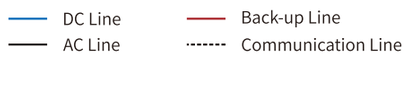
UN38.3

RESIDENTIAL ESS APPLICATION

- Mars residential energy system makes green energy 24/7 available.
- Store daytime energy from photovoltaic and makes it available at any time.
- Peak shaving and valley filling, intelligent purchase or sale of electricity from the power grid, save electric bills and earn money.
- Rural areas that the power grid hardly covers can have stable and cheap electricity from PV systems by using ESS.
- UPS power function supported when an unexpected interruption occurs.
- Higher fuel efficiency compared with oil-fired power generation.







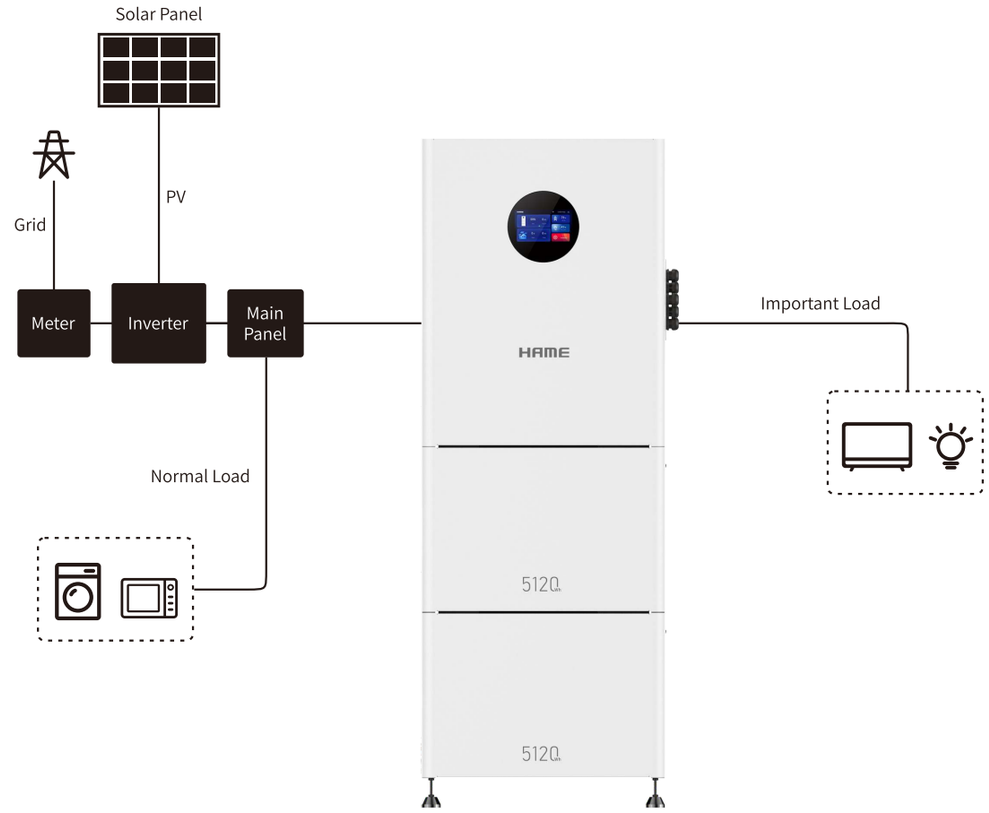
SOLAR BATTERY STORAGE & BACKUP SYSTEM

AC-COUPLED STORAGE SYSTEM

Fearless of Power Outage

Easily Cope with Various Weather Conditions

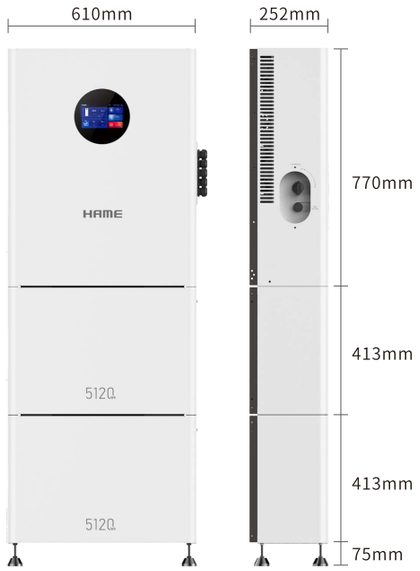
Keep Appliances Running Seamlessly



- User has already installed PV energy system at home, Mars energy storage system can work as home power backup directly, you can DIY quickly instead of waiting for qualified electrician.
- No need communication with PV inverter you already installed, no need any change for the existing PV energy system.

SPECIFICATIONS

MARS SPLIT-PHASE SERIES



Model	H5KLNA	H6KLNA	H7KLNA	H8KLNA
PV Input				
MAX.DC Input Power	7.5kW	9kW	12kW	12kW
NO.MPPT Tracker	4			
MPPT Range	120V~500V			
MAX.DC Input Voltage	500V			
MAX.Input Current	12A			
AC Output (On-Grid)				
Rated Active Power	5kVA	6kVA	7.6kVA	8kVA
Max. Apparent Power	5.5kVA	6.6kVA	8.4kVA	8.8kVA
Output Voltage Range	110V-120V/220V-240V split phase,1∅,230 1 phase			
Output Frequency	50Hz/ 60Hz (45Hz to 54.9Hz/55Hz to 65Hz)			
Nominal AC Current	21.7A	26A	33A	34.8A
Max.AC Current	24A	28.8A	36.5A	38.3A
Max.AC Current From Grid	35A	35A	50A	50A
Output Power Factor	0.8leading~0.8lagging			
OutPut THDI	< 2%			

Model	H5KLNA	H6KLNA	H7KLNA	H8KLNA
AC Output (Back-Up)				
Rated Active Power	5kVA	6kVA	7.6kVA	8kVA
Max. Apparent Power	5.5kVA	6.6kVA	8.4kVA	8.8kVA
Nominal Output Voltage L-N/L1-L2	120V / 240V			
Nominal Output Frequency	60Hz			
Output THDU	＜2%			
Efficiency				
Europe Efficiency	⩾97.8%			
MAX. Battery to Load Efficiency	⩾97.2%			
General Info				
Dimension	610*252*(770+75+413*N)mm			
Weight	62kg(Inverter)+53kg*N(Power Module)			
Cooling Strategy	Natural Convection			
Standby Power	<2W(Work)/<50mW(Sleep)			
Protection Rated	IP65			
Altitude	⩽2000m			
Operating Temperature Range	0°C~50°C			
Display	APP/TFT Screen			
Communication Interface	RS485, CAN			
Warranty	10 Years			
Battery Module(Single Unit)				
Capacity	5120Wh			
Battery Type	$LiFeO_4$			
Voltage	51.2V			
Currrent	100A			
DoD	90%			
Dimension(L*W*H)	610*227*395mm			
Weight	53kg			
Operation Voltage	44V～58.4V			
Charge Voltage	52.5V～59.4V			
Charge/Discharge Current	100A/100A			
Peak Charge/Discharge Current	115A(Peak@10s)/130A(Peak@1s)			
Compliance				
Safety	UL 9540A,UL9540,UL1741&UL1741 SA All Options, UL1699B, CSA C22.2, UL62109-1, UL1998			
EMC	FCC Part 15 Class B			
Grid Connection Standards	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I, II, III			
Transportation	UN38.3(ST/SG/AC.10 /11/ Rev.7 /Amend.1 Part III Sub-section 38.3)			