

Product  
display

Optical storage  
machine series

# Hybrid optical storage all - in - one machine household low - voltage/single - phase



## Flexible

Wide input voltage range  
Compatible with lead acid and lithium batteries for multiple battery access

## Elegance

The appearance is fashionable, lightweight and simple  
Natural cooling, low noise  
IP65 protection grade, wall mounted design, save space

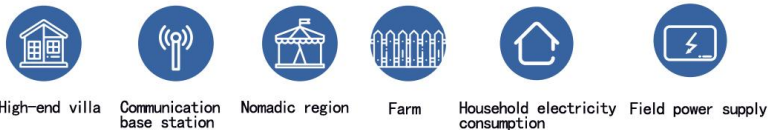
## Reliable

Battery backconnection protection  
Compatible with anti-countercurrent function  
Discharge at full power and disconnect the charger automatically after the battery is full

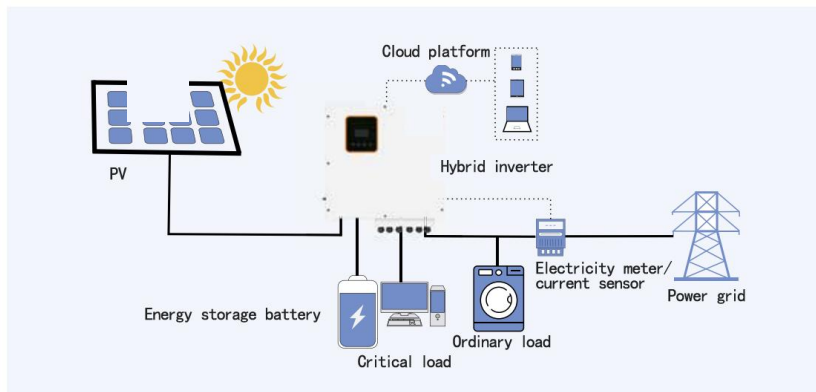
## Advanced

Home smart energy management terminal  
Power dispatching and demand side response management node  
Distributed virtual power plant management node

## Application scenario

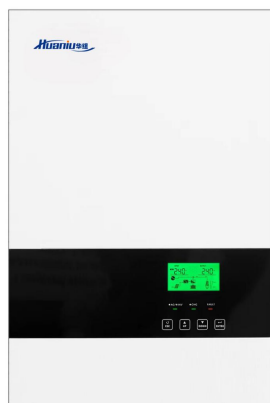


## Product application diagram



Model number	HN-R5KL1	HN-R6KL1
Input parameters (PV)		
Maximum power	7kW	
Starting voltage	125V	
Maximum dc voltage	550V	
MPPT Voltage range/Rated voltage	125-500V/360V	
Output parameter (AC)		
Rated output power	5KVA	6KVA
Grid voltage/Range/Frequency	230V/176VAC-270VAC/50/60Hz	
Battery data		
Battery voltage range	40-58V	
Battery type	Lithium battery/Lead-acid battery/Colloidal battery	
Communication interface	CAN/RS485	
Off-grid output		
Rated power	5KVA	6KVA
Rated output voltage/Frequency	230VAC/50/60Hz	
Automatic switching time	<20ms	
Conventional data		
Battery charging and discharging efficiency	95%	
Ambient temperature	-25°C-+60°C	
Size (width * depth * height)	550*200*515mm	
Weight	26Kg	
Communication mode	RS485/CAN/wifi/Lan/DRM	

# Hybrid optical storage all-in-one household high voltage/three phase



## Flexible

Wide input voltage range  
Compatible with lead acid and lithium batteries for multiple battery access

## Elegance

The appearance is fashionable, lightweight and simple  
Natural cooling, low noise  
IP65 protection grade, wall mounted design, save space

## Reliable

Battery backconnection protection  
Compatible with anti-countercurrent function  
Discharge at full power and disconnect the charger automatically after the battery is full

## Advanced

Home smart energy management terminal  
Power dispatching and demand side response management node  
Distributed virtual power plant management node

## Application scenario



High-end villa



Communication base station



Nomadic region



Farm

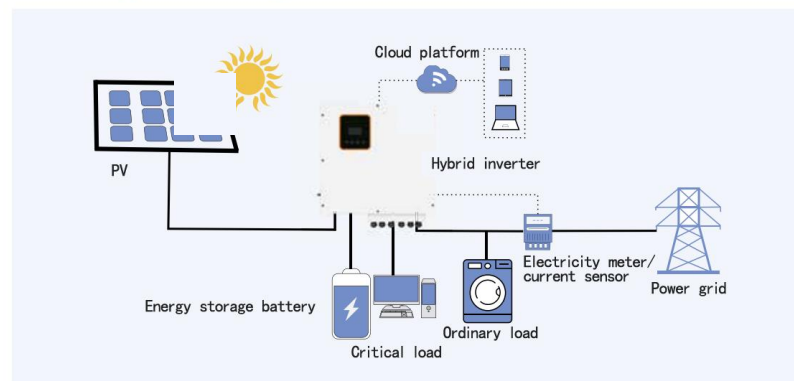


Household electricity consumption



Field power supply

## Product application diagram



Model number	HN-R8KH3	HN-R12KH3
Input parameters (PV)		
Maximum power	10.4kW	15.6kW
Starting voltage	125V	
Maximum dc voltage	1000V	
MPPT Voltage range/Rated voltage	125-850V	
Output parameter (AC)		
Rated output power	8.8KVA	13.2KVA
Grid voltage/Range/Frequency	400V/360VAC-440VAC/50/60Hz	
Battery data		
Battery voltage range	125-600V	
Battery type	Lithium battery/Lead-acid battery/Colloidal battery	
Communication interface	CAN/RS485	
Off-grid output		
Rated power	8.8KVA	13.2KVA
Rated output voltage/Frequency	400VAC/50/60Hz	
Automatic switching time	<20ms	
Conventional data		
Battery charging and discharging efficiency	95%	
Ambient temperature	-25°C~+60°C	
Size (width * depth * height)	550*200*560mm	
Weight	29Kg	
Communication mode	RS485/CAN/wifi/Lan/DRM	

# Optical storage and off-grid integrated machine



## Flexible

Multiple working modes can be set flexibly  
Support lithium battery and lead-acid battery  
Photovoltaic controller can be expanded to facilitate flexible configuration of photovoltaic capacity

## Convenient

Integrated solution, support load, battery, power grid, diesel generator, photovoltaic simultaneously access

Integrated EMS function, safe and stable power supply, maximum utilization of new energy

## Reliable

Battery capacity and discharge time prediction

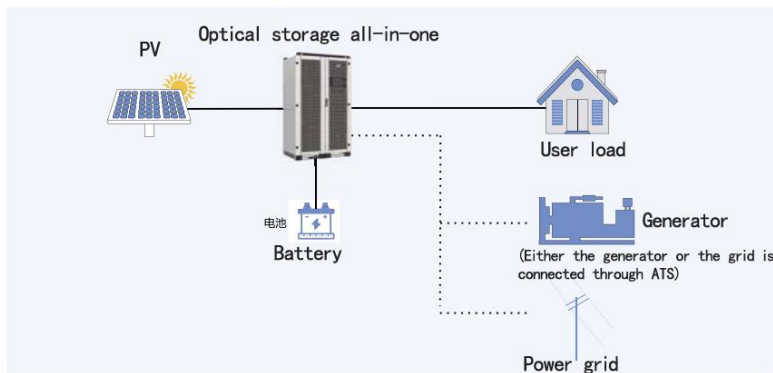
CAN and RS485 interface, Modbus communication protocol

And off - grid state seamless switch, uninterrupted supply load

Built-in isolation transformer has strong load adaptability

Perfect protection function, protect inverter and battery

## Product application diagram



Model number	HN-MPS0030	HN-MPS0050	HN-MPS0100	HN-MPS0150	HN-MPS0250	HN-MPS0500
Input parameters (PV)						
Maximum power	36kW	60kW	120kW	180kW	300kW	600kW
Starting voltage	200V					
Maximum dc voltage	1000V					
MPPT Voltage range/Rated voltage	200-850V					
Output parameter (AC)						
Rated output power	30kW	50kW	100kW	150kW	250kW	500kW
Grid voltage/Range/Frequency	400V/360VAC-440VAC/50/60Hz					
Battery data						
Battery voltage range	200-850V	420-850V			500-850V	
Battery type	Lithium battery/Lead-acid battery/Colloidal battery					
Communication interface	CAN/RS485					
Off-grid output						
Rated power	30kW	50kW	100kW	150kW	250kW	500kW
Rated output voltage/Frequency	400VAC/50/60Hz					
Automatic switching time	<20ms					
Conventional data						
Battery charging and discharging efficiency	95%					
Ambient temperature	-25°C-+60°C					
Size (width * depth * height)	800*800*1900	1200*800*2050	1800*800*2050	2800*1050*2050		
Weight	440kg	720kg	900kg	1250kg	1700kg	3520kg
Communication mode	RS485/CAN/Wifi/Lan/DRM					