

# Energy Storage Hybrid Inverter (Low Battery Voltage)



## Flexible

- Wide input voltage range.
- Compatible with lead-acid or lithium-ion batteries or other battery.

## Grace

- Fashion appearance, light weight, smart operation.
- Natural cooling, low noise.
- IP65 , wall mounted design, saving space.
- Touch screen LCD.

## Reliable

- Compatible anti counter flow function.
- Battery reverse connect protection.

## Advanced

- Intelligent energy management system for home.
- Power dispatching and demand side response management.
- Distributed virtual power station management.

## Application Scenario



Villa



Communication base station



Nomadic area



Farm

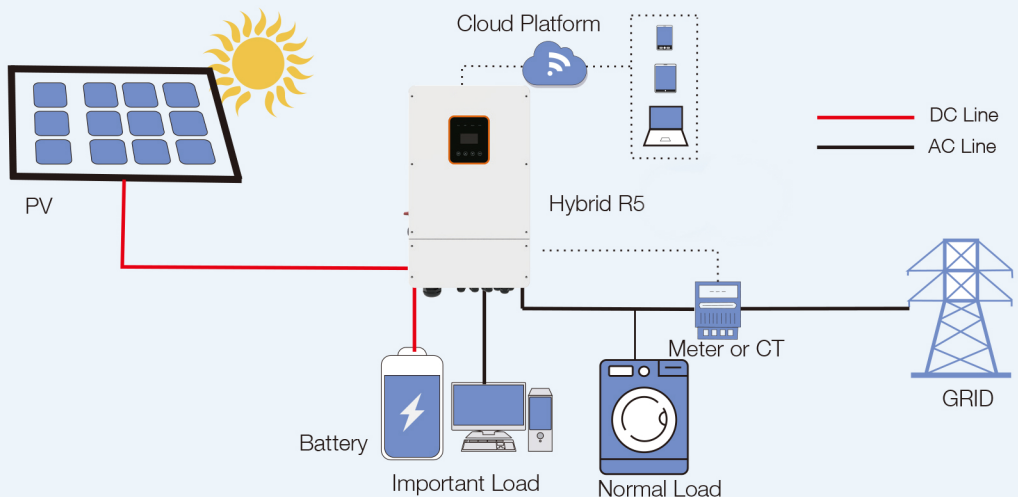


Household



Field power supply

## Product Topology



Model	R5	R6	R7	R8
<b>Efficiency</b>				
Max Efficiency			>=98.2%	
CEC Efficiency			>=97.2%	
<b>On Grid AC Output</b>				
Rate AC Output Power	5KVA	6KVA	7.6KVA	8KVA
AC Output Voltage	120/240Vac(split phase), 208Vac(2/3 phase),230Vac(single phase)			
AC Output Frenquecny	50/60Hz			
Grid Type	Split phase 、 2/3 phase 、 Single Phase			
Max Output Current	24A	28.8A	36.5A	38.3A
AC reverse charging	Yes			
PF	0.8leading...0.8lagging			
Output THDI	< 2%			
<b>Back-up AC Output</b>				
Rated Backup output power	5KVA	6KVA	7.6KVA	8KVA
Max Backup output power	6.25kVA 60S. 7.5KVA 1S	7.5kVA 60S. 9KVA 1S	9.5kVA 60S. 11.4KVA 1S	10kVA 60S. 12KVA 1S
Backup AC output Voltage	120/240Vac(split phase), 208Vac(2/3 phase),230Vac(single phase)			
AC Frenquency	50/60Hz			
Output THDI	< 2%			
<b>PV Input</b>				
PV input power	7.5kW	9kw	12kw	12KW
MPPT number	4			
PV voltage range	350V/85V - 500V			
MPPT voltage range	120V-500V			
Single MPPT input current	12A	12A	12A	12A
<b>Battery</b>				
Max charging/discharging current	120 A / 120A	135A/135A	190A/190A	190A/190A
Battery Voltage range	48V	48V	48V	48V
Battery Type	Lithium-ion,Lead-acid			
<b>Protection</b>				
Ground protection	YES			
AFCI protection	YES			
islanding protection	YES			
DC disconnect detection	YES			
Battery Reverse protection	YES			
Battery charge and discharge protection	YES			
insulation testing	YES			
GFCI	YES			
DC anti-thunder	YES			
AC anti-thunder	YES			
Input overvoltage&under-voltage protections	YES			
Output overvoltage&under-voltage protections	YES			
AC&DC over-current protection	YES			
AC short-circuit current protection	YES			
overheating protection	YES			
<b>General Data</b>				
Operation Temperature range	-25 ~ +60°C			
environment humidity	0-95%			
Altitude	0~4000M (over 2000M derating)			
IP rank	IP65/NEMA 3R			
Weight	32kg			
Dimension(W x H x D)	430x710x210mm			
Cooling	Fan Cooling			
Noise(dB)	<25dB	<29dB	<29dB	<29dB
Display	LCD			
Communication	Modbus, RS485, WIFI,4G			
Safty	EN61000-6-1, EN61000-6-3, FCC 15 class B			
EMC	IEC62109-1, IEC62109-2			
On Grid	UL1741,IEEE1547,RULE21,VDE 0126,AS4777,NRS2017,G98,G99			