



# Split-phase Inverter


Battery voltage: > 80V



## > KEY STRENGTHS

 Single-machine bypass load capacity 90A.

 Support remote monitoring, upgrade and automatic battery management.

 Supporting critical load priority power supply.

## > APPLICATION AREA



Luxury villa



Residential electricity



Nomadic farm



Communication base station

The H1 series high-voltage hybrid inverter is specially designed for the American market. It consists of an inverter and transformer. It can meet the battery voltage range of 85~400V and is suitable for large-capacity home energy storage systems in North America.

### PV string input

Model	R6KH1NA	R8KH1NA	R10KH1NA	R12KH1NA
Max. power(kW)	7.8	10.4	13	15.6
Max. DC voltage(V)	500			
MPPT voltage range(V)	125~500			
Max.input current of single MPPT(A)	12			
No. of MPPT trackers	4			
No. of strings per MPPT trackers	1			

### AC output

Model	R6KH1NA	R8KH1NA	R10KH1NA	R12KH1NA
Rated output power(kVA)	6	8	10	12
Max. apparent Power (kVA)	6.6	8.8	11	12
Max. output current(A)	27.5	36.7	45.8	50
Grid voltage(range(V))	240/211~264			
Frequency (Hz)	50/60			
PF	0.8lagging-0.8leading			
THDi	< 3%			
AC output topology	Split phase、single phase			

### Battery

Model	R6KH1NA	R8KH1NA	R10KH1NA	R12KH1NA
Battery voltage range(V)	85~400			
Max. charging voltage(V)	400			
Full battery voltage(V)	85	110	140	160
Max. charge/discharge current(A)	80/80			
Battery type	lithium /Lead-acid			
Communication interface	CAN			

### EPS output

Model	R6KH1NA	R8KH1NA	R10KH1NA	R12KH1NA
Rated power(kVA)	6	8	10	12
Rated output voltage(V)	220-240 /110-120			
Rated frequency(Hz)	50/60			
Automatic switching time(ms)	<20			
THDu	< 2%			
Overload capacity	110%,30S/120%,10S/150%,0.02S			

### General data

Model	R6KH1NA	R8KH1NA	R10KH1NA	R12KH1NA
Max. efficiency	≥98.2%			
CEC efficiency	≥97.2%			
Ingress protection	IP65/NEMA 3R			
Noise emission(dB)	<25	<25	<29	<29
Operation temperature (°C)	-25~60			
Cooling	Natural			
Relative humidity	0~95% (non-condensing)			
Operation altitude	2,000m(>2,000 Derating)			
Dimensions W * D * H (mm)	560* 220* 680			
Net weight (kg)	34			
Self-consumption at night (W)	<20			

### Display and communication

Model	R6KH1NA	R8KH1NA	R10KH1NA	R12KH1NA
Display	LCD			
Interface:RS485/Wifi/4G/CAN	Yes/ Opt/ Opt/ Yes			
Safety standard	UL1741SA all options, UL1699B, CSA 22.2			
EMC	FCC Part 15, Class B			