

Split-phase hybrid inverter (battery high voltage)



KEY STRENGTHS

- ▮ Mainstream battery automatic matching.
- ▮ Support remote software upgrade.
- ▮ Supporting critical load priority power supply.
- ▮ UL certified, CEC listed and SUNSPEC listed.
- ▮ The maximum current for bypass load of a single inverter can reach up to 90A.
- ▮ Support 100% unbalanced load capacity.

APPLICATIONS

- Luxury villa
- Residential nomadic farm electricity
- Nomadic farm
- Communication base station

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

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

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

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

Max. efficiency	≥98.2%
CEC efficiency	≥97.2%
Ingress protection	IP65/Type 4
Noise emission(dB)	<25
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)	530*200*660
Net weight (kg)	32
Self-consumption at night (W)	<20

Display and communication

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