

American ESS split-phase inverter (battery voltage > 80V)



Luxury villa



Communication base station



Nomadic farm



Residential electricity

Product features:



Support 100% unbalanced load capacity;



Battery reverse connection protection,



Compatible with lead-acid and lithium ion batteries and other battery access;



Anti-power control function;



Support full power discharge, automatic management of battery charge and discharge;



UL certification;

Technical specification	R6KH1NA	R8KH1NA	R10KH1NA	R12KH1N
Input (PV)				
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			
MPPT tracker/strings	4/1			
AC output				
Rated output power(kVA)	6	8	10	12
Max. output current(A)	27.3	36.4	45.4	50
Grid voltage/range(V)	240/211~264			
Frequency (Hz)	50/60			
PF	0.8lagging-0.8leading			
THDi	< 3%			
AC output topology	L+N+PE			
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,RS485			
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/NEMA 3R			
Noise emission(dB)	<25	<25	<29	<29
Operation temperature	-25°C~60°C			
Cooling	Natural			
Relative humidity	0 ~95% (non-condensing)			
Altitude	2,000m(>2,000 Derating)			
Weight(kg)	32			
DimensionsW * D * H (mm)	530* 200* 660			
Display and communication				
Display	LCD			
Interface:RS485/Wifi/4G/ CAN/DRM	Yes/Opt/Opt/Yes/Yes			
Standby power consumption at night(W)	< 2.5 (With the battery < 5)			
Isolation transformer	Yes			
Safety standard	UL1741SA all options, UL1699B, CSA 22.2			
EMC	FCC Part 15, Class B			
On-grid	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III			