

REVO Residential Energy Storage Inverters

American ESS Split-phase Inverter

Battery voltage > 80V

Product Features:

Safe & Reliable

- Passed UL 1741:2021, IEEE 1547.1, UL1699B test certification; With over-voltage, over-current, over-temperature protection, compatible with anti-zero export function;

Flexible & Efficient

- Support full power charge and discharge, better charge and discharge efficiency;
- Support 100% unbalanced load capacity;

Intelligent & Friendly

- Customizable I / O interface, more flexible application;
- Support remote monitoring, remote upgrade and automatic battery management;



Technical Specification:

Technical specification	R6KH1NA	R8KH1NA	R10KH1NA	R12KH1NA
Input (PV)				
Max. power(kW)	7.8	10.4	13	15.6
Max. DC voltage(V)			550	
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. 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			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(°C)			-25~60	
Cooling			Natural	
Relative humidity			0 ~95% (non-condensing)	
Altitude			2,000m(>2,000 Derating)	
Weight(kg)			34	
Dimensions W * D * H (mm)			560* 220* 680	
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, Rule 21 Phase I,II,III	