



REVO residential Energy Storage
inverters

American ESS split- phase inverter

battery voltage: 48V

Product features:

Safe & reliable

- Passed UL 1741:2021, IEEE 1547.1, UL1699B, South Africa NRS097-2-1:2017 test certification;

Friendly & flexible

- Support multi-machine parallel connection;
- Support multi-machine parallel mode sharing a battery pack;

Single-machine load capacity 100A;

Economical & efficient

- Support parallel SOC equalization control and parallel current sharing control;
- Using split-phase topology and eliminating the transformers, to make the system efficiency higher;
- Support the diesel generator and the grid access at the same time;



Technical specification:

Technical specification	R5KLNA	R6KLNA	R8KLNA	R10KLNA
Input (PV)				
Max. power(kW)	7.5	9	12	13
Max. DC voltage (V)			500	
MPPT voltage range(V)			120~500	
Max.Input current of single MPPT(A)			12	
MPPT tracker/strings			4/1	
AC output				
Rated output power(kVA)	5	6	8	10
Max. output current(A)	24	28.8	38.3	47.8
Ac output voltage(V)		120/240(split phase), 208(2/3 phase),230 (single phase)		
Frequency (Hz)		50/60		
PF		0.8lagging-0.8leading		
THDi		< 3%		
AC output topology		Split phase, 2/3 phase, single phase		
Battery				
Battery voltage range(V)			40~58	
Max. charging voltage(V)			58	
Max. charge/discharge current(A)	120/120	135/135	190/190	210/210
Battery type			lithium /Lead-acid	
Communication interface			CAN/RS485	
EPS output				
Rated power(kVA)	5	6	8	10
Rated output voltage(V)		120/240 (split phase), 208 (2/3 phase),230 (single phase)		
Rated output current(A)	24	28.8	38.3	47.8
Rated frequency(Hz)			50/60	
Automatic switching time(ms)			< 20	
THDu			< 2%	
Overload capacity			125%,60S/150%,1S	
General data				
Max. efficiency			≥98.2%	
North american efficiency			≥97.2%	
Ingress protection			IP65/NEMA 3R	
Noise emission(dB)	<25	<29	<29	<29
Operation temperature			-25℃ ~ 60℃	
Cooling			Natural	
Relative humidity			0 ~95% (non-condensing)	
Altitude			2,000m(>2,000 Derating)	
Dimensions W *D *H (mm)			430*220*710	
Weight(kg)			41	
Isolation transformer			No	
Self-consumption(W)			<3	
Display and communication				
Display			LCD, touch screen	
Interface:RS485/Wifi/4G/ CAN/DRM			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,NRS	

