

REVO Residential Energy Storage Inverters

Single-phase ESS Hybrid Inverter

Product Features:

Safe & Reliable

- Passed IEC/EN62109-1/-2, IEC/EN62477-1, South Africa NRS097-2-1:2017, IEC/EN 61000-6-1, IEC/EN 61000-6-3 test certification;

Friendly & Flexible

- Support multi-parallel connection;
- Support flexible access of diesel generator;
- Compatible with lead-acid and lithium-ion battery;

Economical & Practica

- Support intelligent EMS management function;
- Support on/off-grid automatic switching function to ensure uninterrupted power when important loads are off-grid;



Technical Specification:

Technical Specification	R3KL1	R3K6L1	R4KL1	R4K6L1	R5KL1	R6KL1
Input (PV)						
Max. power(kW)	4.6	4.6	6	6	7	7
Max. DC voltage(V)				550		
MPPT voltage range(V)				125~500		
Max.input current of single MPPT(A)				14		
MPPT tracker/strings				2/1		
AC output						
Rated output power(kVA)	3	3.68	4	4.6	5	6
Max. output current(A)	13	16	17.4	20	21.7	26
Grid voltage/range(V)				230/176~270		
Frequency (Hz)				50 /60		
PF				0.99lagging-0.99leading		
THDi				<2%		
AC output topology				L+N+PE		
Battery						
Battery voltage range(V)				40~58		
Max. charging voltage(V)				58		
Max. charge/discharge current(A)	95/62.2	95/76.6	95/83.3	95/95.8	95/104.2	95/110
Battery type				lithium /Lead-acid		
Communication interface				CAN/RS485		
EPS output						
Rated power (kVA)	3	3.68	4	4.6	5	6
Rated output voltage(V)				230		
Rated output current(A)	13	16	17.4	20	21.7	26
Rated frequency (Hz)				50 /60		
Automatic switching time (ms)				<20		
THDu				<2%		
Overload capacity				110%, 30S/120%, 10S/150%, 0.02S		
General data						
Battery chage/discharge efficiency				95.0%		
DC Max. efficiency				97.6%		
Europe efficiency				97.0%		
MPPT efficiency				99.9%		
Ingress protection				IP65		
Noise emission (dB)				<40		
Operation temperature (°C)				- 25~ 60		
Cooling				Natural		
Relative humidity				0 ~95% (non-condensing)		
Altitude				2,000m(>2,000 Derating)		
Dimensions W * D * H (mm)				550*200*520		
Weight (kg)				25		
Isolation transformer				No		
Self-consumption(W)				<3		
Display and communication						
Display				LCD		
Interface:RS485/Wifi/4G/ CAN/DRM				Yes/ Opt/ Opt/ Yes/ Yes		
Safety standard				IEC/EN62109-1/-2, IEC/EN62477-1		
EMC				IEC/EN 61000-6-1, IEC/EN 61000-6-3		
On-grid				South Africa NRS097-2-1:2017, UK G98,G99,EN 50549-1,Italy CEI 0-21, Germany VDE4105,IEC61727/62116/61683, Sweden EIFS 2018: 2		