

REVO residential energy storage inverters

Single-phase hybrid inverter



Key strengths

- Max. 4 pcs in parallel.
- Switch time of on / off-grid ≤ 10 ms.
- Compatible with lead-acid and lithium-ion battery.
- Adapt to impact load.
- Support flexible access of diesel generator.
- Support cloud platform monitoring function.
- Support low-voltage battery wake-up function.

Applications

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

PV string input

Model	R3KL1	R3K6L1	R4KL1	R4K6L1	R5KL1	R6KL1
Max. power(kW)	4.6	4.6	6	6	7	7
Max. DC voltage(V)	550					
MPPT voltage range(V)	125~500					
MPPT voltage range@full load (V)	150-500	150-500	170-500	170-500	220-500	220-500
No. of MPPT trackers	2					
Max.input current of single MPPT(A)	14					
No. of PV strings per MPPT tracker	1					

AC output

Rated output power(kVA)	3	3.68	4	4.6	5	6
Rated output current(A)	13	16	17.4	20	21.7	26
Grid voltage/range(V)	230/176~270					
Rate grid frequency (Hz)	50 / 60					
Power factor	0.99leading-0.99lagging					
THDi	<3%					
AC grid type	L+N+PE					

Battery

Battery voltage range(V)	40~58					
Max. charging voltage(V)	58					
Max. charge/discharge current(A)	95/62.5	95/76.6	95/83.3	95/95.8	95/104.2	95/110
Battery type	Lithium /Lead-acid					
Communication interface	CAN					

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 switchover time (ms)	≤10					
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%					
MPPTefficiency	99.9%					
Ingress protection	IP65					
Noise emission (dB)	<40					
Operation temperature (°C)	-25 ~ 60 (Derating at 45°C)					
Cooling	Natural					
Relative humidity	0 ~95% (non-condensing)					
Operating altitude	2,000m(>2,000 Derating)					
Dimensions W*D*H (mm)	550*200*520					
Net weight (kg)	25					
Topology	Non-isolated					
Self-consumption at night (W)	15~25					

Display and communication

Display	LCD					
Interface:RS485/Wifi/4G/CAN/DRM	Yes/Opt/Opt/Yes/Yes					
Safety standard	IEC/EN62109-1/-2					
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 EFS 2018: 2					