

REVO Residential Energy Storage Inverters

Split-Phase hybrid inverter

Battery low voltage

KEY STRENGTHS

- Support the construction of three-phase systems.
- Capable of supporting 100% unbalanced loads.
- Support 4-channel MPPT
- 100A pass through.
- AC solar to retrofit existing solar system(on-grid & off-grid).
- Grid & generator separately connected, support storing energy from diesel generator.

Model	R5KLNA	R6KLNA	R7K6LNA	R8KLNA	R10KLNA
PV input data					
Max. DC input power (kW)	7.5	9	12	12	15
No. of MPPT trackers	4				
MPPT voltage range (V)	120~500				
Max. DC input voltage (V)	500				
Full power operating voltage range (V)	120~430				
Max. input current (A)	14				
Max. short-circuit current (A)	22				

Battery input data

Rated battery voltage (Vdc)	48				
Max. charging / discharging current (A)	120/120	135/135	190/190	190/190	190/210
Battery voltage range (V)	40~60				
Battery recommended voltage range (V)	40~58				
Battery type	Lithium-ion / Lead-acid				
Battery charging strategy	Self-adaption to BMS				

AC output data (on-grid)

Rated output power to grid (kVA)	5	6	7.6	8	10
Max. apparent power output to grid (kVA)	5.5	6.6	8.4	8.8	11
Output voltage range (V)	110-120/220-240V split phase, 1Ø, 230 1 phase				
Output frequency (Hz)	50/60 (45 ~ 54.9 / 55 ~ 65)				
Rated AC current output to grid (A)	20.8	25	31.7	33.3	41.7
Max. AC current output to grid (A)	22.9	27.5	35	36.7	45.8
Power factor	0.8leading~0.8lagging				
Output THDi	<2%				
Max. grid passthrough current(A)	100				

AC output data (back-up)

Rated apparent power output (kVA)	5	6	7.6	8	10
Max. apparent power output (kVA)	5.5	6.6	8.4	8.8	11
Rated output voltage (L-N/L1-L2) (V)	120/240				
Rated output frequency (Hz)	60				
Output THDu	<2%				

Protection

Supported protection	Grounding detection, Arc fault protection, Island protection, Insulation resistor detection, Residual current monitoring unit, Output over current protection, Back-up output short protection, Output over voltage protection, Output under voltage protection
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Certifications and standards

Safety	UL1741SA all options, UL1699B, CSA 22.2
EMC	FCC part 15 class
Grid connection standards	IEEE 1547, IEEE 2030.5, Hawaii rule 14H, Rule 21 phase I, II, III

General data

Europe efficiency	≥ 97.8%
Max. battery to load efficiency	≥ 97.2%
Ingress protection	IP65 / Type 3R
Operating temperature range (°C)	-25 ~ +60 (>45 derating)
Cooling	Natural convection
Relative humidity	0-95%
Operating altitude (m)	0~4,000
Dimensions W*D*H (mm)	450 x 240 x 820
Weight (kg)	48
Noise emission (dB)	<48
Self-consumption (W)	<25

Display and communication

Display	LCD touch screen
Communication with BMS/meter/EMS	RS485, CAN
Supported communication interface	RS485, WLAN, 4G (optional)