

SPLIT-PHASE HYBRID INVERTER

REVO

Battery low voltage



Key Strengths



Plug & Play



100A pass through



Capable of supporting 100% unbalanced loads



AC couple to retrofit existing solar system (on-grid & off-grid)



3 phase 208Vac & parallel function available



Grid & diesel generator separately connected, support storing energy from diesel generator

Model	R5KLNA	R6KLNA	R7K6LNA	R8KLNA	R10KLNA
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		
MAX. input current (A)			14		
MAX. short circuit current (A)			22		
Battery input					
Nominal voltage (V)			48		
MAX.charging/discharging current (A)	120/120	135/135	190/190	190/190	190/210
Battery voltage range (V)			40~60		
Battery type			Lithium /Lead-acid		
Charging strategy for Li-Ion battery			Self-adaption to BMS		
AC output(on-grid)					
Nominal output power output 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)/(220~240)split phase, 240V single phase		
Output frequency (Hz)			60(55 to 65)		
Nominal 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	34.8	36.7	45.8
Max. grid passthrough current (A)			100		
Output THDi			<3%		
AC output(back-up)					
Nominal. apparent power (kVA)	5	6	7.6	8	10
Max. apparent power (kVA)	5.5	6.6	8.4	8.8	11
Nominal output voltage L-N/L1-L2 (V)			120/240		
Nominal output frequency (Hz)			60		
Automatic switchover time (ms)			<20		
Output power factor			0.8leading~0.8lagging		
Output THDu			<2%		
Protection					
Grounding detection			Yes		
Arc fault protection			Yes		
Island protection			Yes		
Battery reverse polarity			Yes		
Insulation resistor detection			Yes		
Residual current monitoring unit			Yes		
Output over current protection			Yes		
Back-up output short protection			Yes		
Output over voltage protection			Yes		
Output under voltage protection			Yes		
General data					
Mppt efficiency			99.9%		
Europe efficiency (PV)			96.5%		
PV to grid efficiency (PV)			97.2%		
Battery to load efficiency			95.2%		
PV to battery charging efficiency			96.1%		
Grid to battery charging efficiency			95.0%		
Output conduit (mm)			25.4		
PV input conduit (mm)			25.4		
BAT input conduit (mm)			35.4		
Operating temperature range (°C)			-25~+60		
Relative humidity			0~95%		
Operating altitude			0~4,000m(Derating above 2,000m altitude)		
Ingress protection			IP65/NEMA 3R		
Built-in breaker			Optional		
Weight (kg)			48kg(50kg with breaker)		
Dimensions W*H*D (mm)			450 x 820 x 240		
Cooling			FAN cooling		
Noise emission (dB)			38		
Display			LCD,Touch panel(optinal)		
Communication with BMS/Meter/EMS			RS485, CAN		
Supported communication interface			RS485, WLAN, 4G (optional)		
Self-consumption			<25W		
Safety			UL1741SA all options, UL1699B, CSA 22.2		
EMC			FCC part 15 class B		
Support diesel generator			YES		
Grid connection standards			IEEE 1547, IEEE 2030.5, Hawaii rule 14H, Rule 21 phase I,II,III		
Other data					
Peak power (off grid)			105%,60s / 110%,30s / 120%,10s / 150%,20ms		