

Single-phase hybrid inverter



Technical specification:

Technical specification	R3KL1	R3K6L1	R4KL1	R4K6L1	R5KL1	R6KL1
PV string input						
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		
No. of strings per MPPT trackers				1/1		
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		
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)	95/62.2	95/75	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)				<35		
Operation temperature				- 25°C ~ 60°C (Derating at 45°C)		
Cooling				Natural		
Relative humidity				0 ~95% (non-condensing)		
Operation altitude (m)				2,000 (>2,000 Derating)		
Dimensions W * D * H (mm)				550*200*515		
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, 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		