

## Single Phase ESS Hybrid Inverter

### KEY FEATURES:

- 5-year warranty
- Supports multi-parallel connection
- Intelligent EMS management function
- Natural cooling, low noise
- IP65, wall-mounted design, space saving
- Supports on/off-grid automatic
- Touch screen LCD
- switching function to ensure uninterrupted power when important loads are off-grid



Technical specification	R3KL1	R3K6L1	R4KL1	R4K6L1	R5KL1	R6KL1
<b>Input (PV)</b>						
Max. power(kW)	4.6	4.6	6	6	7	7
MPPT voltage range(V)	125~500					
Max.input current of single MPPT(A)	14					
MPPT tracker/strings	2/1					
<b>AC output</b>						
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	0.8lagging-0.8leading					
THDi	<3%					
AC output topology	L+N+PE					
<b>Battery</b>						
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/RS485 & WiFi, 4G (Optional)					
<b>EPS output</b>						
Rated power (kVA)	3	3.68	4	4.6	5	6
Rated output voltage(V)	230					
Rated output current(A)	13	16	17.4	20.2	1.7	26
Rated frequency (Hz)	50 /60					
Automatic switching time (ms)	<20					
THDu	<2%					
Overload capacity	110%, 30S/120%, 10S/150%, 0.02S					



Technical specification	R3KL1	R3K6L1	R4KL1	R4K6L1	R5KL1	R6KL1
<b>General data</b>						
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)				<35		
Operation temperature				25°C - 60°C		
Cooling				Natural		
Relative humidity				0 ~95% (non-condensing)		
Altitude				2,000m(>2,000 Derating)		
Dimensions W * D * H (mm)				550*200*515		
Weight (kg)				25		
Isolation transformer				No		
Self-consumption(W)				<3		
<b>Display and communication</b>						
Display				LCD		
Interface				RS485, CAN, DRM, Wifi (Optional), 4G (Optional)		
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		