

Single-phase ESS hybrid inverter



Luxury villa



Communication base station



Nomadic farm



Residential electricity

Product features:



Supports automatic battery switching;



Support diesel generator input source;



Compatible with lead-acid and lithium-ion batteries;



Parallel available, intelligent BMS management;



Input power source priority can be set by users;



Battery reverse connection protection, anti-power control function;

Technical specification	R3KL1	R3K6L1	R4KL1	R4K6L1	R5KL1	R6KL1
Input (PV)						
Max. power	4.6kW	4.6kW	6kW	6kW	7kW	7kW
Max. DC voltage	550V					
MPPT voltage range	125~500V					
Max.input current of single MPPT	14A					
MPPT tracker/strings	2/1					
AC output						
Rated output power	3kVA	3.6kVA	4kVA	4.6kVA	5kVA	6kVA
Max. output current	13A	16A	17.4A	20A	21.7A	26A
Grid voltage/range	230/176~270V					
Frequency	50 /60Hz					
PF	0.8lagging-0.8leading					
THDi	<3%					
AC output topology	L+N+PE					
Battery						
Battery voltage range	40~58V					
Max. charging voltage	58V					
Max. charge/discharge current	95/62.2A	95/75A	95/83.3A	95/95.8A	95/104.2A	95/110A
Battery type	lithium /Lead-acid					
Communication interface	CAN/RS485					
EPS output						
Rated power	3kVA	3.6kVA	4kVA	4.6kVA	5kVA	6kVA
Rated output voltage	230V					
Rated output current	13A	16A	17.4A	20A	21.7A	26A
Rated frequency	50 /60Hz					
Automatic switching time	<20ms					
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%					
MPPT efficiency	99.9%					
Ingress protection	IP65					
Noise emission	<35dB					
Operation temperature	- 25℃ ~ 60℃					
Cooling	Natural					
Relative humidity	0 ~95% (non-condensing)					
Altitude	2,000m(>2,000 Derating)					
Dimensions W*D*H	550*200*515mm					
Weight	25kg					
Isolation transformer	No					
Self-consumption	<3W					
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 IEC/EN 61000-6-1, IEC/EN 61000-6-3 UK G98,G99					