











G2 Hybrid Inverter

> KEY STRENGTHS

-  Small, light, easy to install, can save 50% labor installation cost.
-  High efficiency, improve the battery charging and discharging efficiency 96%.
-  Suitable for the latest 210mm high-power PV panel (Isc=18.5A).
-  The high power can cover 3~8kW to meet the single-phase load requirements of users.
-  Support mobile phone (Bluetooth +WIFI) setting and maintenance.
-  Integrated RSD and PLC(TBD).
-  Screen optional (no screen or colorful touch screen are optional).
-  Compatible with lead-acid and lithium-ion battery access.

> APPLICATION AREA



Luxury villa



Residential electricity



Nomadic farm



Communication base station

Based on the excellent performance of the previous generation of products, G2 hybrid inverter has improved the product volume and weight, making the product lighter and smaller, the full load efficiency has been increased by 0.5%, and the cost performance has been greatly improved.

PV string input

Model	R3KL1-G2	R3K6L1-G2	R4KL1-G2	R4K6L1-G2	R5KL1-G2	R6KL1-G2	R8KL1-G2
Max. Input power (kW)	4.5	5.4	6	6.9	7.5	9	12
Start-up voltage (V)	100						
Max. PV input voltage(V)	550						
MPPT range/nominal (V)	80~500/360						
Max.input current of single MPPT(A)	16/16	16/16	16/16	16/16	16/16	16/16	16/32
No. of MPPT trackers	2	2	2	2	2	2	2
No. of strings per MPPT trackers	1/1	1/1	1/1	1/1	1/1	1/1	1/2

AC output

Model	R3KL1-G2	R3K6L1-G2	R4KL1-G2	R4K6L1-G2	R5KL1-G2	R6KL1-G2	R8KL1-G2
Rated power (kW)	3	3.68	4	4.6	5	6	8
Rated current(A)	13	16	17.4	20	21.7	26	35
Nominal voltage/range(V)	230 /176~270						
Frequency (Hz)	50 /60						
Power factor	1(0.8 leading-0.8 lagging)						
THDi	<3%						
AC grid type	L+N+PE						

Battery

Model	R3KL1-G2	R3K6L1-G2	R4KL1-G2	R4K6L1-G2	R5KL1-G2	R6KL1-G2	R8KL1-G2
Battery voltage range(V)	40~58						
Max. charging voltage(V)	58						
Max. charge/discharge current(A)	60/60	72/72	80/80	92/92	100/100	120/120	160/160
Battery type	Lithium /Lead-acid						
Communication Interface	CAN						

EPS output

Model	R3KL1-G2	R3K6L1-G2	R4KL1-G2	R4K6L1-G2	R5KL1-G2	R6KL1-G2	R8KL1-G2
Rated power (kW)	3	3.68	4	4.6	5	6	8
Rated voltage(V)	230						
Rated current(A)	13	16	17.4	20	21.7	26	35
Rated frequency(Hz)	50 / 60						
Automatic switchover time(ms)	<10						
THDu	<2%						
Overload capacity	110%, 60S/ 120%, 30S/ 150%, 10S						

General data

Model	R3KL1-G2	R3K6L1-G2	R4KL1-G2	R4K6L1-G2	R5KL1-G2	R6KL1-G2	R8KL1-G2
Battery chage/discharge efficiency	96%						
DC Max. efficiency	98%						
Europe efficiency	97%						
MPPT efficiency	99.9%						
Ingress protection	IP65						
Noise emission (dB)	<35						
Operation temperature (°C)	-25~ 60						
Cooling	Natural						
Relative humidity	0 ~95% (non-condensing)						
Operating altitude	2,000m (>2,000 Derating)						
Dimensions W * D * H (mm)	454.5*200*476						485.5*200*476
Net weight (kg)	18						20
Topology	Non-isolated						
Self-consumption at night (W)	<15						

Display and communication

Model	R3KL1-G2	R3K6L1-G2	R4KL1-G2	R4K6L1-G2	R5KL1-G2	R6KL1-G2	R8KL1-G2
Display	Optional (colorful touch screen /no screen)						
Interface:RS485 / Wifi / 4G / CAN / DRM	Yes/ Opt/ Opt/ Yes/ Yes						