

# G2 series energy storage inverter



## KEY STRENGTHS

- Using soft switching technology, the overall machine efficiency is increased by 0.5%.
- Support AC coupling function.
- Support mobile phone (Bluetooth +WIFI) setting and maintenance.
- Compact design Save 50% on installation costs.
- Suitable for the latest 210mm high-power PV panel (Isc=18.5A).
- Ultra-low starting voltage, longer power generation time.



G2 COUPLER SERIES



G2 SERIES WITH GENERATOR INPUT



G2 SERIES STANDARD MODEL

**.WITHOUT SCREEN**

R3KL1-AC	R4KL1-AC	R5KL1-AC	R8KL1-AC	R3KL1-G2	R4KL1-G2	R5KL1-G2	R8KL1-G2
R3K6L1-AC	R4K6L1-AC	R6KL1-AC		R3K6L1-G2	R4K6L1-G2	R6KL1-G2	

**.WITH SCREEN**

R3KL1D-AC	R4KL1D-AC	R5KL1D-AC	R8KL1D-AC	R3KL1DA-G2	R4KL1DA-G2	R5KL1DA-G2	R8KL1DA-G2	R3KL1D-G2	R4KL1D-G2	R5KL1D-G2	R8KL1D-G2
R3K6L1D-AC	R4K6L1D-AC	R6KL1D-AC		R3K6L1DA-G2	R4K6L1DA-G2	R6KL1DA-G2		R3K6L1D-G2	R4K6L1D-G2	R6KL1D-G2	

**PV string input**

Model	R3KL1-G2	R3K6L1-G2	R4KL1-G2	R4K6L1-G2	R5KL1-G2	R6KL1-G2	R8KL1-G2
	R3KL1D-G2	R3K6L1D-G2	R4KL1D-G2	R4K6L1D-G2	R5KL1D-G2	R6KL1D-G2	R8KL1D-G2
	R3KL1DA-G2	R3K6L1DA-G2	R4KL1DA-G2	R4K6L1DA-G2	R5KL1DA-G2	R6KL1DA-G2	R8KL1DA-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						16/32
Max. short-circuit current (A)	18.5/18.5						18.5/37

**AC output**

Model	R3KL1-AC	R3K6L1-AC	R4KL1-AC	R4K6L1-AC	R5KL1-AC	R6KL1-AC	R8KL1-AC
	R3KL1D-AC	R3K6L1D-AC	R4KL1D-AC	R4K6L1D-AC	R5KL1D-AC	R6KL1D-AC	R8KL1D-AC
	R3KL1-G2	R3K6L1-G2	R4KL1-G2	R4K6L1-G2	R5KL1-G2	R6KL1-G2	R8KL1-G2
	R3KL1D-G2	R3K6L1D-G2	R4KL1D-G2	R4K6L1D-G2	R5KL1D-G2	R6KL1D-G2	R8KL1D-G2
	R3KL1DA-G2	R3K6L1DA-G2	R4KL1DA-G2	R4K6L1DA-G2	R5KL1DA-G2	R6KL1DA-G2	R8KL1DA-G2
Rated power (kW)	3	3.68	4	4.6	5	6	8
Max. AC current output to grid (A)	14.3	16	19.1	20	21.7	28.7	38.3
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**

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/RS485						
Max.battery output power/duration(kW/min)	/						8/20

**EPS output**

Rated power (kW)	3	3.68	4	4.6	5	6	8
Rated voltage (V)	230						
Max. AC current output to grid (A)	14.3	16	19.1	20	21.7	28.7	38.3
Rated frequency (Hz)	50 / 60						
Automatic switchover time (ms)	<10						
THDu	<2%						
Overload capacity	110%, 60S/ 120%, 30S/ 150%, 10S						

**General data**

Battery chage/discharge efficiency	96%	
PV 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 (m)	2,000 (>2,000 Derating)	
Dimensions W*D*H (mm)	With Generator:454.5*220*499.7 / Without Generator:454.5*220*467	With Generator:484.5*220*499.7 Without Generator:484.5*220*467
Net weight (kg)	19 (20 With Generator Input)	
Topology	Non-isolated	
Standby loss(W)	<15	
Display	Optional (colorful touch screen /no screen)	
Interface:RS485/Wifi/4G/CAN/DRM	Yes/Opt/Opt/Yes/Yes	