



FY residential energy storage inverters

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 ($I_{sc}=18.5A$).
- Ultra-low starting voltage, longer power generation time.



PV string input

Model	R6KL1-G2	R8KL1-G2
	R6KL1D-G2	R8KL1D-G2
	R6KL1DA-G2	R8KL1DA-G2
Max. Input power (kW)	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	R6KL1-AC	R8KL1-AC
	R6KL1D-AC	R8KL1D-AC
	R6KL1-G2	R8KL1-G2
	R6KL1D-G2	R8KL1D-G2
	R6KL1DA-G2	R8KL1DA-G2
Rated power (kW)	6	8
Max. AC current output to grid (A)	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)	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)	6	8
Rated voltage (V)		230
Max. AC current output to grid (A)	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)	22(23 Standard Model)
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