

REVO 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 (Isc=18.5A).
- Ultra-low starting voltage, longer power generation time.

Product family



G2 COUPLER SERIES



G2 SERIES WITH GENERATOR



G2 SERIES WITHOUT GENERATOR

.WITHOUT SCREEN

R3KL1-AC R4KL1-AC R5KL1-AC R8KL1-AC

R3K6L1-AC R4K6L1-AC R6KL1-AC

R3KL1-G2 R4KL1-G2 R5KL1-G2 R8KL1-G2

R3K6L1-G2 R4K6L1-G2 R6KL1-G2

.WITH SCREEN

R3KL1D-AC R4KL1D-AC R5KL1D-AC R8KL1D-AC

R3K6L1D-AC R4K6L1D-AC R6KL1D-AC

R3KL1DA-G2 R4KL1DA-G2 R5KL1DA-G2 R8KL1DA-G2

R3K6L1DA-G2 R4K6L1DA-G2 R6KL1DA-G2

R3KL1D-G2 R4KL1D-G2 R5KL1D-G2 R8KL1D-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) | 454.5*200*467 | | | | | | 484.5*200*467 |
| Net weight (kg) | 19 (20 With generator) | | | | | | 22(23 With generator) |
| 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 | | | | | | |