

REVO residential energy storage inverters

G2S Single-phase energy storage inverter



KEY STRENGTHS

- Support on/off-grid AC coupling function
- Support three-phase and multi-machine parallel connection
- Support intelligent load management (customized)
- Support BMS remote upgrade function (customized)



G2S WITHOUT COLOR SCREEN SERIES



G2S SERIES WITH COLOR SCREEN



G2S SERIES WITH GENERATOR INPUT

Model	R3KL1DA-G2S	R3K6L1DA-G2S	R4KL1DA-G2S	R4K6L1DA-G2S	R5KL1DA-G2S	R6KL1DA-G2S
PV input data						
Max. PV input power (kW)	4.5	5.4	6	6.9	7.5	9
Max. PV input voltage (V)	550					
Start-up voltage (V)	100					
MPPT voltage range (V)	100~430					
Rated PV input voltage (V)	360					
No. of MPPT trackers	2					
No. of strings per MPPT tracker	1/1					
Max. input current per MPPT (A)	16/16					
Max. short-circuit current per MPPT (A)	24/24					

Battery input data

Battery type	Lithium-ion / Lead-acid					
Max. charge / discharge power (kW)	3	3.68	4	4.6	5	6
Battery voltage range (V)	40~58					
Rated battery voltage (V)	48					
Max. charging / discharging current (A)	60/60	72/72	80/80	92/92	100/100	120/120
Rated charge / discharge current (A)	60/60	72/72	80/80	92/92	100/100	120/120
Battery charging strategy	Self-adaption to BMS					
BMS communication	CAN					

AC output data (grid side)

Rated output power (kW)	3	3.68	4	4.6	5	6
Max. apparent output power (kVA)	3.3	3.68	4.4	4.6	5	6.6
Max. apparent input power(kVA)	3.3	3.68	4.4	4.6	5	6.6
Rated grid voltage (V)	230					
Grid voltage range (V)	176~270					
Grid input voltage (V)	230					
Rated grid frequency (Hz)	50/60					
Grid frequency range(Hz)	47~61					
Rated output current (A)	13	16	17.4	20	21.7	26.1
Max. AC output current (A)	14.3	16	19.1	20	21.7	28.7
Max. apparent input current (A)	14.3	16	19.1	20	21.7	28.7
Power factor	>1 (0.8 leading ~ 0.8 lagging)					
Max. grid passthrough current(A)	19.56	24	26.08	30	32.6	39.1
THDi	< 3%					
Grid type	L+N+PE					

AC output data (back-up)

Rated output power (kW)	3	3.68	4	4.6	5	6
Max. apparent output power (kVA)	3.3	3.68	4.4	4.6	5	6.6
Rated output voltage (V)	230					
Rated output frequency (Hz)	50/60					
Rated output current (A)	13	16	17.4	20	21.7	26.1
Max. AC output current (A)	14.3	16	19.1	20	21.7	28.7
Peak output power	≥110%, 10mins; ≥120%, 1min; ≥130%, 1s; ≥150%, 100ms					
Back-up switch time (ms)	<20					
THDu	<3%					

Protection

Supported protection	PV reverse polarity protection, Anti-islanding protection, Ground fault protection, Leakage current protection, Insulation resistance detection, Backup output short circuit protection, AC under-voltage protection, AC output over-current protection, AC over-voltage protection
Surge protection	DC Type III / AC Type III
Over voltage category	DC Type III / AC Type III

Certifications and standards

Certificates	ENIEC 61000-6-1:2019, EN IEC 61000-6-3:2021; EN 62109-1:2010; EN 62109-2:2011
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General data

Europe efficiency	≥96.5%
Ingress protection	IP65
Operating temperature range (°C)	-25~+60
Cooling	Natural convection
Relative humidity	0-95% (non-condensing)
Operating altitude (m)	0~2,000(derating over 2,000)
Dimensions W*D*H (mm)	476×215×477 (without generator port); 476×215×510 (with generator port)
Weight (kg)	20.5 (without generator port); 20.7 (with generator port)
Inverter topology	Non-isolated
Noise emission (dB)	<35
PV connection terminals	MC4

Display and communication

Display	LCD
Communication	RS485/CAN
Connectivity	Wi-Fi and Lan (via external adapters)