

G2S

Single-phase energy storage inverter

3-6kW

REVO residential energy storage series



KEY STRENGTHS

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



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					
General data						
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					

G2S

Single-phase
energy storage inverter

8-10kW

REVO residential energy storage series



KEY STRENGTHS

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



G2S WITHOUT COLOR SCREEN SERIES



G2S COLOR SCREEN SERIES

Model	R8KL1DA-G2S	R10KL1DA-G2S
PV input data		
Max. PV input power (kW)	12	15
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		1/2
Max. input current per MPPT (A)		16/16+16
Max. short-circuit current per MPPT (A)		24/24/24

Battery input data

Battery type	Lithium-ion / Lead-acid	
Max. charge / discharge power (kW)	8	10
Battery voltage range (V)	40~58	
Rated battery voltage (V)	48	
Max. charging / discharging current (A)	160/160	200/200
Rated charge / discharge current (A)	160/160	200/200
Battery charging strategy	Self-adaption to BMS	
BMS communication	CAN	

AC output data (grid side)

Rated output power (kW)	8	10
Max. apparent output power (kVA)	8.8	10
Max. apparent input power(kVA)	8.8	10
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)	34.8	43.5
Max. AC output current (A)	38.3	43.5
Max. apparent input current (A)	38.3	43.5
Power factor	>1 (0.8 leading ~ 0.8 lagging)	
Max. grid passthrough current(A)	43.5	
THDi	< 3%	
Grid type	L+N+PE	

AC output data (back-up)

Rated output power (kW)	8	10
Max. apparent output power (kVA)	8.8	10
Rated output voltage (V)	230	
Rated output frequency (Hz)	50/60	
Rated output current (A)	34.8	43.5
Max. AC output current (A)	38.3	43.5
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

Ingress protection	IP65
Operating temperature range (°C)	-25~+60
Cooling	Fan cooling
Relative humidity	0-95% (non-condensing)
Operating altitude (m)	0~2,000(derating over 2,000)
Dimensions W*D*H (mm)	486×231×530
Weight (kg)	25.8
Inverter topology	Non-Isolated
Noise emission (dB)	<55
PV connection terminals	MC4

Display and communication

Display	LCD
Communication	RS485/CAN