

REVO residential energy storage inverters

G2S series energy storage inverter



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)



G2A 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	Natural convection
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
Topology (solar / battery)	Transformerless / Transformerless
Noise emission (dB)	<55
PV connection terminals	MC4

Display and communication

Display	LCD
Communication	RS485/CAN