



Energy Storage Products and Solutions

MAKE ENERGY CLEANER AND MORE EFFICIENT

— Catalog 2026 V1.0

01

Product Line

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O6KL2NA-G2

Phase-segregated grid-independent inverter

h6-12kW

REVO Residential Energy Storage Series



product features

• High-voltage PV power integration capability

Maximum photovoltaic voltage: 550 V; maximum MPPT voltage: 500 V, enabling flexible string configurations and reducing installation costs.

• Highly efficient self-cooling heat dissipation design

It utilizes natural convection cooling, offering quieter operation, higher reliability, and lower maintenance costs.

• Strong bypass load-bearing capability

The maximum bypass current for a single unit can reach 50 A. Capable of supporting high-power loads and impact loads.

• Integrated Glass Touchscreen Display

A completely new integrated glass touchscreen design with a intuitive interface, smooth operation, and clear system status at a glance.

PV input parameter

Model	O6KL2NA-G2	O12KL2NA-G2
Maximum Photovoltaic Input Power (kW)	9	18
MPPT quantity	2	
MPPT Voltage Range (V)	120~500	
Maximum Photovoltaic Input Voltage (V)	550	
Maximum input current per MPPT path (A)	14 / 14	28 / 28
Maximum short-circuit current (A) per MPPT circuit	22 / 22	35 / 35

Battery Input Parameters

Rated Voltage (Vdc)	48	
Maximum charge/discharge current (A)	125 / 125	250 / 250
Battery Voltage Range (V)	40~60	
Battery Type	Lithium-ion batteries / Lead-acid batteries	
Battery Charging Strategy	Level 3, with equalization	

Exchange Output Parameters (Grid Connection)

Rated Output Power (kW)	6	12
Rated AC voltage (L-N/L1-L2) (V)	120 / 240,120 / 208 (2/3 phases)	
Rated AC Frequency (Hz)	60 (55 to 65)	
Rated AC current (A)	25	50
Maximum bypass current (from grid to load) (A)	50	100

Exchange Output Parameters (Backup Power)

Rated Output Power (kW)	6	12
Rated output voltage (L-N/L1-L2) (V)	120 / 240,120 / 208 (2/3 phases)	
Rated Output Frequency (Hz)	60	
Power factor	0.8 ahead ~ 0.8 behind	
THDu	< 2%	

Generator Input Parameters

Maximum Input Power (kW)	6	12
Rated Voltage (L-N/L1-L2) (V)	120 / 240	
Maximum Input Current (A)	25	50

protect

Ground Detection	Support
Arc Fault Protection	Support
Island Protection	Support
Insulation impedance testing	Support
Overcurrent Protection Output	Support
Backup Output Short-Circuit Protection	Support
Overvoltage Protection Output	Support
Output Undervoltage Protection	Support

Default Parameters

Working Temperature Range (°C)	-25~ +60	
Relative humidity	0%-95%	
Working Altitude (m)	0 Approximately 4,000 (power reduction of >2,000)	
Levels of protection	IP65	
Weight (kg)	35	41
Size (W*H*D, mm)	475x695x250	
Cooling-down method	Natural convection	Air blast cooling
Noise (dB)	<40	
Display screen	Touch screen	
Communication with BMS/Meter/EMS	RS485, CAN	
Supported Communication Interfaces	RS485, WLAN, 4G (optional)	
Standby Power Consumption (W)	<25	
Safety standards	UL1741, CSA	
EMC	-	
Grid Connection Standards	-	

O6KL1D

Off-grid Inverter

15-6kW

REVO Residential Energy Storage Series



product features

- Excellent load compatibility and strong adaptability to power grids
 - Large-sized touchscreen for intuitive operation
 - Supports up to 4 devices running in parallel
- It has an overload capacity of 1.5 times the rated power and operates with low noise levels.
 - IP65 protection rating ensures longer product design life
 - Rong Three-Phase Application

model	O5KL1D	O6KL1D
Photovoltaic Input Parameters		
Maximum Photovoltaic Input Power (kW)	7.5	9
MPPT quantity	1/1	
Maximum Photovoltaic Input Voltage (V)	500	
MPPT Voltage Range (V)	100~430	
Maximum input current per MPPT path (A)	32	
Maximum short-circuit current (A) per MPPT circuit	37	

Rated voltage （V）	48	
Battery Voltage Range (V)	40~58	
Maximum charge/discharge current (A)	100 / 100	120 / 120
Battery Type	Lithium-ion batteries / Lead-acid batteries	
Battery Charging Strategy	Self-adaption BMS	

Exchange Output Parameters (Backup Power)

Rated Output Power (kW)	5	6
Rated Output Voltage (V)	230	
Output Frequency (Hz)	50 / 60	
Maximum Apparent Output Current (A)	21.7	26
Maximum Overcurrent Output (A)	26	31.2
Power factor	1 (0.8 lead ~ 0.8 lag)	
THDu	<3%	
Switch Time (ms)	10	

AC Input Parameters (Grid Connection)

Rated input voltage (V)	230	
Grid Voltage Input Range (V)	176~270	
Rated grid frequency (Hz)	50 / 60	
THDi	<3%	
Network Type	L+N+PE	

Generator Input Parameters

Maximum Input Power (kW)	5	6
Maximum Input Current (A)	21.7	26

protect

Island Protection	Support
Insulation impedance testing	Support
PV Input Reverse Protection	Support
Overcurrent Protection Output	Support
Output Short-Circuit Protection	Support
Overvoltage Protection Output	Support
Output Undervoltage Protection	Support
Communication/Direct Current Surge Protection	Support

Default Parameters

Maximal efficiency	96%
Working Temperature Range (°C)	-25°C ~ +60
Relative humidity	5%-95%
Working Altitude (m)	0—2,000 (power rating reduced by more than 2,000)
Levels of protection	IP65
Weight （kg）	17
Size (W * D * H, mm)	455*200*447
Cooling-down method	Natural convection
Noise （dB）	<35
Display screen	Color screen
Communication with RS485/WiFi/GPRS/CAN/DRM	Available / Optional / Optional /Available /Available
Inverter Topology Structure	Non-isolated type

G2A

Single-phase energy storage inverter

13-6kW

REVO Residential Energy Storage Series



product features

- Supports AC coupling functionality for both grid-connected and off-grid modes
- Supports intelligent management of loads (customizable)
- Suitable for three-phase applications and supports parallel operation of multiple devices
- Support BMS remote upgrade functionality (customizable)



model	R3KL1DA-G2A	R3K6L1DA-G2A	R4KL1DA-G2A	R4K6L1DA-G2A	R5KL1DA-G2A	R6KL1DA-G2A
Photovoltaic Input Parameters						
Maximum Photovoltaic Input Power (kW)	4.5	5.4	6	6.9	7.5	9
Maximum Photovoltaic Input Voltage (V)	550					
Starting voltage (V)	100					
MPPT Voltage Range (V)	100~430					
Rated photovoltaic input voltage (V)	360					
MPPT quantity	2					
Number of strings each MPPT can connect to	1 / 1					
Maximum input current per MPPT path (A)	16 / 16					
Maximum short-circuit current per MPPT circuit (A)	24 / 24					

Battery Input Parameters						
Battery Type	Lithium-ion batteries / Lead-acid batteries					
Maximum charge/discharge power (kW)	3	3.68	4	4.6	5	6
Battery Voltage Range (V)	40~58					
Rated Battery Voltage (V)	48					
Maximum charge/discharge 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 BMS					
BMS communication	CAN					

Exchange Output Parameters (On the Grid Side)						
Rated Output Power (kW)	3	3.68	4	4.6	5	6
Maximum Apparent Output Power (kVA)	3.3	3.68	4.4	4.6	5	6.6
Maximum 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					
Power Grid Frequency Range (Hz)	47~61					
Rated output current (A)	13	16	17.4	20	21.7	26.1
Maximum AC Output Current (A)	14.3	16	19.1	20	21.7	28.7
Maximum apparent input current (A)	14.3	16	19.1	20	21.7	28.7
Power factor	>1 (0.8 lead to 0.8 lag)					
Maximum Grid Bypass Current (A)	19.56	24	26.08	30	32.6	39.1
THDi	<3%					
Network Type	L+N+PE					

Exchange Output Parameters (Backup Power)						
Rated Output Power (kW)	3	3.68	4	4.6	5	6
Maximum Apparent 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
Maximum AC output current (A)	14.3	16	19.1	20	21.7	28.7
Overload capacity	≥110%, 10mins; ≥120%, 1min; ≥130%, 1s; ≥150%, 100ms					
And off-grid switching time (ms)	<20					
THDu	<3%					

protect	
Supported Protection	Photovoltaic reverse polarity protection, islanding protection, ground fault protection, leakage current protection, insulation impedance detection Load output short-circuit protection, AC under-voltage protection, AC output over-current protection, AC over-voltage protection
Surge protection	DC side: TYPE III / AC side: TYPE III
Overvoltage Level	DC side: TYPE III / AC side: TYPE III

Default Parameters	
European Efficiency	≥96.5%
Levels of protection	IP65
Working Temperature Range (°C)	-25~+60
Cooling-down method	Natural convection
Relative humidity	0~95% (no condensation)
Working Altitude (m)	0~ 2,000 (power rating reduction>2,000)
Size (W * D * H, mm)	476×215×477 (without firewood); 476×215×510 (with firewood)
Weight (kg)	20.5 (Without beard); 20.7 (With beard)
Inverter Topology Structure	Non-isolated
Noise (dB)	<35
Photovoltaic Connection Terminal	MC4

Display and Communication	
Display screen	LCD
Communication	RS485 / CAN
Linkage	Wi-Fi and LAN (via external adapter)



Single-phase energy storage inverter

13-6kW

REVO Residential Energy Storage Series



product features

- Supports AC coupling functionality for both grid-connected and off-grid modes
- Supports intelligent management of loads (customizable)
- Suitable for three-phase applications and supports parallel operation of multiple devices
- Support BMS remote upgrade functionality (customizable)



The G 2 S series does not come with a color display screen.



G2S Color Screen Series



G2S Series with Diesel Engine

model	R3KL1DA-G2S	R3K6L1DA-G2S	R4KL1DA-G2S	R4K6L1DA-G2S	R5KL1DA-G2S	R6KL1DA-G2S
Photovoltaic Input Parameters						
Maximum Photovoltaic Input Power (kW)	4.5	5.4	6	6.9	7.5	9
Maximum Photovoltaic Input Voltage (V)	550					
Starting voltage (V)	100					
MPPT Voltage Range (V)	100~430					
Rated photovoltaic input voltage (V)	360					
MPPT quantity	2					
Number of strings each MPPT can connect to	1 / 1					
Maximum input current per MPPT path (A)	16 / 16					
Maximum short-circuit current per MPPT circuit (A)	24 / 24					

Battery Input Parameters						
Battery Type	Lithium-ion batteries / Lead-acid batteries					
Maximum charge/discharge power (kW)	3	3.68	4	4.6	5	6
Battery Voltage Range (V)	40~58					
Rated Battery Voltage (V)	48					
Maximum charge/discharge 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 BMS					
BMS communication	CAN					

Exchange Output Parameters (On the Grid Side)						
Rated Output Power (kW)	3	3.68	4	4.6	5	6
Maximum Apparent Output Power (kVA)	3.3	3.68	4.4	4.6	5	6.6
Maximum 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					
Power Grid Frequency Range (Hz)	47~61					
Rated output current (A)	13	16	17.4	20	21.7	26.1
Maximum AC Output Current (A)	14.3	16	19.1	20	21.7	28.7
Maximum apparent input current (A)	14.3	16	19.1	20	21.7	28.7
Power factor	>1 (0.8 lead to 0.8 lag)					
Maximum Grid Bypass Current (A)	19.56	24	26.08	30	32.6	39.1
THDi	<3%					
Network Type	L+N+PE					

Exchange Output Parameters (Backup Power)						
Rated Output Power (kW)	3	3.68	4	4.6	5	6
Maximum Apparent 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
Maximum AC output current (A)	14.3	16	19.1	20	21.7	28.7
Overload capacity	≥110%, 10mins; ≥120%, 1min; ≥130%, 1s; ≥150%, 100ms					
And off-grid switching time (ms)	<20					
THDu	<3%					

protect	
Supported Protection	Photovoltaic reverse polarity protection, islanding protection, ground fault protection, leakage current protection, insulation impedance detection Load output short-circuit protection, AC under-voltage protection, AC output over-current protection, AC over-voltage protection
Surge protection	DC side: TYPE III / AC side: TYPE III
Overvoltage Level	DC side: TYPE III / AC side: TYPE III

Certification and Standards	
Attestation	ENIEC 61000-6-1:2019, EN IEC 61000-6-3:2021; EN 62109-1:2010; EN 62109-2:2011

Default Parameters	
European Efficiency	≥96.5%
Levels of protection	IP66
Working Temperature Range (°C)	-25~+60
Cooling-down method	Natural convection
Relative humidity	0~95% (no condensation)
Working Altitude (m)	0~ 2,000 (tariff reduced for distances above 2,000 meters)
Size (W * D * H, mm)	476×215×477 (without firewood); 476×215×510 (with firewood)
Weight (kg)	20.5 (Without beard); 20.7 (With beard)
Inverter Topology Structure	Non-isolated
Noise (dB)	<35
Photovoltaic Connection Terminal	MC4

Display and Communication	
Display screen	LCD
Communication	RS485 / CAN
Linkage	Wi-Fi and LAN (via an external adapter)



Single-phase energy storage inverter

8-10kW

REVO Residential Energy Storage Series



product features

- Supports AC coupling functionality for both grid-connected and off-grid modes
- Supports intelligent management of loads (customizable)
- Suitable for three-phase applications and supports parallel operation of multiple devices
- Support BMS remote upgrade functionality (customizable)



model	R8KL1DA-G2S	R10KL1DA-G2S
Photovoltaic Input Parameters		
Maximum Photovoltaic Input Power (kW)	12	15
Maximum Photovoltaic Input Voltage (V)	550	
Starting voltage (V)	100	
MPPT Voltage Range (V)	100~430	
Rated photovoltaic input voltage (V)	360	
MPPT quantity	2	
Number of strings each MPPT can connect to	1 / 2	
Maximum input current per MPPT path (A)	16 / 16+16	
Maximum short-circuit current per MPPT circuit (A)	24 / 24 / 24	

Battery Input Parameters		
Battery Type	Lithium-ion batteries / Lead-acid batteries	
Maximum charge/discharge power (kW)	8	10
Battery Voltage Range (V)	40~58	
Rated Battery Voltage (V)	48	
Maximum charge/discharge current (A)	160 / 160	200 / 200
Rated charge/discharge current (A)	160 / 160	200 / 200
Battery Charging Strategy	Self-adaption BMS	
BMS communication	CAN	

Exchange Output Parameters (Grid Side)		
Rated Output Power (kW)	8	10
Maximum Apparent Output Power (kVA)	8.8	10
Maximum 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	
Power Grid Frequency Range (Hz)	47~61	
Rated output current (A)	34.8	43.5
Maximum AC Output Current (A)	38.3	43.5
Maximum apparent input current (A)	38.3	43.5
Power factor	>1 (0.8 lead to 0.8 lag)	
Maximum Grid Bypass Current (A)	43.5	
THDi	<3%	
Network Type	L+N+PE	

Exchange Output Parameters (Backup Power)		
Rated Output Power (kW)	8	10
Maximum Apparent Power (kVA)	8.8	10
Rated output voltage (V)	230	
Rated Output Frequency (Hz)	50 / 60	
Rated output current (A)	34.8	43.5
Maximum AC output current (A)	38.3	43.5
Overload capacity	≥110%, 10mins; ≥120%, 1min; ≥130%, 1s; ≥150%, 100ms	
And off-grid switching time (ms)	<20	
THDu	<3%	

protect	
Supported Protection	Photovoltaic reverse polarity protection, islanding protection, ground fault protection, leakage current protection, insulation impedance detection Load output short-circuit protection, AC under-voltage protection, AC output over-current protection, AC over-voltage protection
Surge protection	DC side: TYPE III / AC side: TYPE III
Overvoltage Level	DC side: TYPE III / AC side: TYPE III

Certification and Standards	
Attestation	ENIEC 61000-6-1:2019, EN IEC 61000-6-3:2021; EN 62109-1:2010; EN 62109-2:2011

Default Parameters	
European Efficiency	≥96.5%
Levels of protection	IP66
Working Temperature Range (°C)	-25~+60
Cooling-down method	Air blast cooling
Relative humidity	0~95% (no condensation)
Working Altitude (m)	0~2,000 (tariff reduced for distances above 2,000 meters)
Size (W * D * H, mm)	486×231×530
Weight (kg)	25.8
Inverter Topology Structure	Non-isolated
Noise (dB)	<55
Photovoltaic Connection Terminal	MC4

Display and Communication	
Display screen	LCD
Communication	RS485 / CAN
Linkage	Wi-Fi and LAN (via an external adapter)

R12KL3

Three-phase hybrid inverter

8-12kW

REVO Residential Energy Storage Series



product features

- The PV side is compatible with string configurations capable of handling high currents of up to 20 A.
 - Capable of handling 100% unbalanced loads
 - Supports integration of diesel generators for seamless power supply connection to the grid.
- It possesses a continuous AC load capacity of 1.1 times the rated value.
 - Supports multi-device parallel operation
 - The maximum charge and discharge current can reach 240 A.

model	R8KL3	R10KL3	R12KL3
Photovoltaic Input Parameters			
Maximum Power (kW)	12	15	18
Starting voltage （V）		200	
Maximum Photovoltaic Voltage		1,000	
MPPT Voltage Range (V)		200~850	
Rated voltage （V）		600	
Maximum short-circuit current per MPPT circuit (A)		30 / 30	
Maximum input current per MPPT path (A)		20 / 20	
MPPT quantity		2	
Number of strings each MPPT can connect to		1 / 1	

Exchange Output Parameters (Grid Connection)			
Rated Output Power (kW)	8	10	12
Rated output current (A)	11.6	14.5	17.5
Rated grid voltage (V)	220 / 380; 230 / 400		
Grid Voltage Range (V)	340~440		
Rated grid frequency (Hz)	50 / 60		
Power Grid Frequency Range (Hz)	45-55 / 55-65		
THDi	< 3%		
Network Type	3W+N+PE		

Exchange Output Parameters (Off-grid)			
Rated Output Power (kW)	8	10	12
Maximum AC Input/Output (kVA)	8.8	11	13.2
Rated Output Voltage (V)	220 / 380; 230 / 400		
Rated output current (A)	11.6	14.5	17.5
Maximum Input/Output Current (A)	11.6 / 12.8	14.5 / 16	17.5 / 19.2
Rated Output Frequency (Hz)	50 / 60		
Maximum output	2 times the power for 10 seconds		
Auto Switch Time (ms)	Up to 10 ms		
THDu	3% (normal linear load)		
Maximum Continuous Bypass Current (A)	50		
Overload capacity	Supports 100% unbalanced output; maximum output power per phase: 50% of the rated power		

Battery Parameters			
Battery Voltage Range (V)	40~60		
Maximum Charging Voltage (V)	60		
Maximum charge/discharge current (A)	160 / 160	200 / 200	240 / 240
Communication interface	CAN / RS485		

productiveness	
Maximal efficiency	97.6%
European Efficiency	97.0%
MPPT productiveness	> 99%

protect	
Photovoltaic input reverse connection protection	Support
Photovoltaic Input DC Switch	Support
Direct/AC Surge Protection	DC Type II / AC Type III
Insulation impedance testing	Support
RCD check	Support
AC Output Short-Circuit Protection	Support
Power Grid Monitoring	Support
Island Protection Against Voltage Surges	Support
Arc fault detection	Selectable

Default Parameters	
Size (W * D * H, mm)	420*262*650
Weight （kg）	<40
Levels of protection	IP65
Noise （dB）	<55
Working Temperature Range (°C)	-25 ~ +60 (power rating reduced by more than 45%)
Cooling-down method	Air blast cooling
Working Altitude (m)	3000 (power rating reduction>2,000)
Inverter Topology Structure	Non-isolated
Communication	RS485 / Wifi / GPRS / CAN
Display screen	4.3" (Optional)

R10KLLA

Split-phase mixed

inverter low-voltage battery



I 5-10kW

REVO Residential Energy Storage Series

product features

- Support Group Three-Phase Function
 - Supports 100% unbalanced load
 - Supports 4 MPPT channels
- Single-unit bypass load capacity: 100 A
 - Supports AC coupling to upgrade existing photovoltaic grid-connected power generation systems.
 - Features independent interfaces for both mains power and diesel generator, supporting direct battery charging by the diesel generator.

model	R5KLLA	R6KLLA	R7K6LLA	R8KLLA	R10KLLA
Photovoltaic Input Parameters					
Maximum Photovoltaic Input Power (KW)	7.5	9	12	12	15
MPPT quantity			4		
MPPT Voltage Range (V)			120~500		
Maximum Photovoltaic Input Voltage (V)			500		
Full-load operating voltage range (V)			120~430		
Maximum input current per MPPT path (A)			14		
Maximum short-circuit current (A) per MPPT circuit			22		

Battery Input Parameters					
Rated Battery Voltage (Vdc)	48				
Maximum charge/discharge current (A)	120 / 120	135 / 135	190 / 190	190 / 190	190 / 210
Battery Voltage Range (V)	40~60				
Recommended Battery Voltage Range (V)	40~58				
Battery Type	Lithium battery / Lead-acid battery				
Battery Charging Strategy	Self-adaption BMS				

Exchange Output Parameters (Grid Connection)					
Rated grid output power (KVA)	5	6	7.6	8	10
Maximum apparent power output to the grid (KVA)	5.5	6.6	8.4	8.8	11
Output Voltage Range (V)	110~120/220~240 V split-phase, 1 Ø, 230 single-phase				
Output Frequency (Hz)	50 / 60(45 ~ 54.9 / 55 ~ 65)				
Rated AC current output to the power grid (A)	20.8	25	31.7	33.3	41.7
Maximum AC output current to the grid (A)	22.9	27.5	35	36.7	45.8
Power factor	0.8 ahead ~ 0.8 behind				
THDi	<2%				
Maximum Grid Bypass Current (A)	100				

Exchange Output Parameters (Backup Power)					
Rated Power Output (KVA)	5	6	7.6	8	10
Maximum Apparent Power Output (KVA)	5.5	6.6	8.4	8.8	11
Rated output voltage (L-N/L1-L2) (V)	120 / 240				
Rated Output Frequency (Hz)	60				
THDu	<2%				

protect	
Supported Protection	Ground detection, arc fault protection, islanding protection, insulation impedance detection, residual current monitoring unit, output overcurrent protection, standby output short-circuit protection, output overvoltage protection, output undervoltage protection

Certification and Standards	
Attestation	IEC62109-1/-2; IEC61000-6-1/-3; IEC62477-1

Default Parameters					
CEC productiveness	97.3%	97.2%	97.2%	97.3%	97.2%
Maximum Battery Load Efficiency	≥97.2%				
Levels of protection	IP65 / Type 3R				
Working Temperature Range (°C)	−25 to +60 (power rating reduced by more than 45%)				
Cooling-down method	Air blast cooling				
Relative humidity	0-95%				
Working Altitude (m)	0 Approximately 4,000 (power reduction of>2,000)				
Weight (Kg)	48				
Noise (dB)	<48				
Standby Power Consumption (W)	<25				

Display and Communication	
Display screen	LCD touch screen
Communication with BMS/Meter/EMS	RS485, CAN
Supported Communication Interfaces	RS485, WLAN, 4G (optional)

R10KLNA

Split-phase mixed

inverter low-voltage battery



I 5-10kW

REVO Residential Energy Storage Series

product features

- Support Group Three-Phase Function
 - Supports 100% unbalanced load
 - Supports 4 MPPT channels
- Single-unit bypass load capacity: 100 A
 - Supports AC coupling to upgrade existing photovoltaic grid-connected power generation systems.
 - Features independent interfaces for both mains power and diesel generator, supporting direct battery charging by the diesel generator.

model	R5KLNA	R6KLNA	R7K6LNA	R8KLNA	R10KLNA
Photovoltaic Input Parameters					
Maximum Photovoltaic Input Power (KW)	7.5	9	12	12	15
MPPT quantity	4				
MPPT Voltage Range (V)	120~500				
Maximum Photovoltaic Input Voltage (V)	500				
Full-load operating voltage range (V)	120~430				
Maximum input current per MPPT path (A)	14 / 14 / 14 / 14				
Maximum short-circuit current (A) per MPPT circuit	22 / 22 / 22 / 22				

Battery Input Parameters					
Rated Battery Voltage (Vdc)	48				
Maximum charge/discharge current (A)	120 / 120	135 / 135	190 / 190	190 / 190	190 / 210
Battery Voltage Range (V)	40~60				
Recommended Battery Voltage Range (V)	40~58				
Battery Type	Lithium battery / Lead-acid battery				
Battery Charging Strategy	Self-adaption BMS				

Exchange Output Parameters (Grid Connection)					
Rated grid output power (KVA)	5	6	7.6	8	10
Maximum apparent power output to the grid (KVA)	5.5	6.6	8.4	8.8	11
Output Voltage Range (V)	110~120/220~240 V split-phase, 1 Ø, 230 single-phase				
Output Frequency (Hz)	50 / 60(45 ~ 54.9 / 55 ~ 65)				
Rated AC current output to the power grid (A)	20.8	25	31.7	33.3	41.7
Maximum AC output current to the grid (A)	22.9	27.5	35	36.7	45.8
Power factor	0.8 ahead ~ 0.8 behind				
THDi	<2%				
Maximum Grid Bypass Current (A)	100				

Exchange Output Parameters (Backup Power)					
Rated Power Output (KVA)	5	6	7.6	8	10
Maximum Apparent Power Output (KVA)	5.5	6.6	8.4	8.8	11
Rated output voltage (L-N/L1-L2) (V)	120 / 240				
Rated Output Frequency (Hz)	60				
THDu	<2%				

protect	
Supported Protection	Ground detection, arc fault protection, islanding protection, insulation impedance detection, residual current monitoring unit, output overcurrent protection, standby output short-circuit protection, output overvoltage protection, output undervoltage protection

Certification and Standards	
Safe	UL1741SA all options, UL1699B, CSA 22.2
EMC	FCC part 15 class
Grid Connection Standards	IEEE 1547, IEEE 2030.5, Hawaii rule 14H, Rule 21 phase I, II, III

Default Parameters					
CEC productiveness	97.3%	97.2%	97.2%	97.3%	97.2%
Maximum Battery Load Efficiency	≥97.2%				
Levels of protection	IP65 / Type 3R				
Working Temperature Range (°C)	-25 to +60 (power rating reduced by more than 45%)				
Cooling-down method	Air blast cooling				
Relative humidity	0-95%				
Working Altitude (m)	0 Approximately 4,000 (power reduction of>2,000)				
Size (W * D * H, mm)	450 x 240 x 820				
Weight (Kg)	48				
Noise (dB)	<48				
Standby Power Consumption (W)	<25				

Display and Communication	
Display screen	LCD touch screen
Communication with BMS/Meter/EMS	RS485, CAN
Supported Communication Interfaces	RS485, WLAN, 4G (optional)

R16KLLA

Split-phase mixed-inverter

low tension battery

| 12-16kW

REVO Residential Energy Storage Series



product features

- Support Group Three-Phase Function
 - Supports 100% unbalanced load
 - Supports 4 MPPT channels
- Single-unit bypass current capacity: 200 A
 - Supports AC coupling to upgrade existing photovoltaic grid-connected power generation systems.
 - Features independent interfaces for both mains power and diesel generator, supporting direct battery charging by the diesel generator.

model	R12KLLA	R16KLLA
Photovoltaic Input Parameters		
Maximum Photovoltaic Input Power (kW)	18	24
MPPT quantity	4	
MPPT Voltage Range (Without Battery) (V)	120~500	
MPPT Voltage Range (with Battery) (V)	120~430	
Maximum Photovoltaic Input Voltage (V)	500	
Maximum input current per MPPT path (A)	16 / 16 / 16 / 16	20 / 20 / 20 / 20
Maximum short-circuit current per MPPT circuit (A)	22 / 22 / 22 / 22	25 / 25 / 25 / 25

Battery Input Parameters		
Rated Battery Voltage (V)	48	
Maximum charge/discharge current (A)	250 / 260	260 / 280
Battery Voltage Range (V)	40~58	
Battery Type	Lithium battery / Lead-acid battery	
Charging Controller	Level 3 Balance	

Exchange Output Parameters (Grid Connection)		
Rated output power delivered to the grid (kW)	12	16
Maximum apparent power output to the grid (kVA)	13.2	17.6
Rated AC voltage (L-N/L1-L2) (V)	(110~120) / (220~240 V) split-phase; 240 V single-phase	
Rated AC Frequency (Hz)	60 (55 ~ 65)	
Rated AC current (A)	50	66.7
Maximum AC Frequency (A)	55	73.3
Maximum Grid Bypass Current (A)	200	
THDi	<3%	

Exchange Output Parameters (Backup Power)		
Rated Output Power (kW)	12	13
Maximum Apparent Output Power (kVA)	12 (without PV) / 13.2 (including PV)	13.2
Rated Output Voltage (V)	120 / 240	
Rated Output Frequency (Hz)	60	
Power factor	0.8 ahead ~ 0.8 behind	
THDu	<2%	

protect	
Supported Protection	Ground detection, arc fault protection, islanding protection, insulation impedance detection, residual current monitoring unit, output overcurrent protection, standby output short-circuit protection, output overvoltage protection, output undervoltage protection

Certification and Standards	
Attestation	IEC62109-1/-2; IEC61000-6-1/-3; IEC62477-1

Default Parameters	
MPPT productiveness	99.9%
CEC Efficiency (PV)	96.2%
Maximum Photovoltaic Grid-Connected Efficiency (PV)	96.5%
Maximum Battery Load Efficiency	94.6%
Maximum charging efficiency of photovoltaic cells	95.8%
Maximum charging efficiency from the power grid to the battery	94.5%
Levels of protection	IP65 / NEMA 3R
Working Temperature Range (°C)	-25~+60
Cooling-down method	Air blast cooling
Relative humidity	0-95%
Working Altitude (m)	0 Approximately 4,000 (power reduction of>2,000)
Size (W * D * H, mm)	495 x 260 x 900
Weight (with circuit breaker) (kg)	56
Noise (approx.) (dB)	57
Standby Power Consumption (W)	<25

Display and Communication	
Display screen	Touch screen
Communication with BMS/Meter/EMS	RS485, CAN
Supported Communication Interfaces	RS485,4G (optional), Wi-Fi

R16KLNA

Split-phase mixed-inverter

low tension battery

| 12-16kW

REVO Residential Energy Storage Series



product features

- Support Group Three-Phase Function
 - Supports 100% unbalanced load
 - Supports 4 MPPT channels
- Single-unit bypass current capacity: 200 A
 - Supports AC coupling to upgrade existing photovoltaic grid-connected power generation systems.
 - Features independent interfaces for both mains power and diesel generator, supporting direct battery charging by the diesel generator.

model	R12KLNA	R16KLNA
Photovoltaic Input Parameters		
Maximum Photovoltaic Input Power (kW)	18	24
MPPT quantity	4	
MPPT Voltage Range (Without Battery) (V)	120~500	
MPPT Voltage Range (with Battery) (V)	120~430	
Maximum Photovoltaic Input Voltage (V)	500	
Maximum input current per MPPT path (A)	16 / 16 / 16 / 16	20 / 20 / 20 / 20
Maximum short-circuit current (A) per MPPT circuit	22 / 22 / 22 / 22	25 / 25 / 25 / 25

Battery Input Parameters		
Rated Battery Voltage (V)	48	
Maximum charge/discharge current (A)	250 / 260	260 / 280
Battery Voltage Range (V)	40~58	
Battery Type	Lithium battery / Lead-acid battery	
Charging Controller	Level 3 Balance	

Exchange Output Parameters (Grid Connection)		
Rated output power delivered to the grid (kW)	12	16
Maximum apparent power output to the grid (kVA)	13.2	17.6
Rated AC voltage (L-N/L1-L2) (V)	(110–120) / (220–240 V) split-phase; 240 V single-phase	
Rated AC Frequency (Hz)	60 (55 ~ 65)	
Rated AC current (A)	50	66.7
Maximum AC Frequency (A)	55	73.3
Maximum Grid Bypass Current (A)	200	
THDi	<3%	

Exchange Output Parameters (Backup Power)		
Rated Output Power (kW)	12	13
Maximum Apparent Output Power (kVA)	12 (without PV) / 13.2 (including PV)	13.2
Rated Output Voltage (V)	120 / 240	
Rated Output Frequency (Hz)	60	
Power factor	0.8 ahead ~ 0.8 behind	
THDu	<2%	

protect	
Supported Protection	Ground detection, arc fault protection, islanding protection, insulation impedance detection, residual current monitoring unit, output overcurrent protection, standby output short-circuit protection, output overvoltage protection, output undervoltage protection

Certification and Standards	
Safe	UL1741, UL1741SA&SB all options, UL1699B, CSA -C22.2 NO.107.1-01, RSD (NEC690.5, 11, 12)
EMC	FCC Part 15 Class B
Grid Connection Standards	IEEE 1547, IEEE 2030.5, HECO Rule 14H, CA Rule 21 Phase I, II, III, CEC, CSIP, SRD2.0, SGIP, OGPe, NOM, California Prob65

Default Parameters	
MPPT productiveness	99.9%
CEC Efficiency (PV)	96.2%
Maximum Photovoltaic Grid-Connected Efficiency (PV)	96.5%
Maximum Battery Load Efficiency	94.6%
Maximum charging efficiency of photovoltaic cells	95.8%
Maximum charging efficiency from the power grid to the battery	94.5%
Levels of protection	IP65 / NEMA 3R
Working Temperature Range (°C)	-25~+60
Cooling-down method	Air blast cooling
Relative humidity	0-95%
Working Altitude (m)	0 Approximately 4,000 (power reduction of>2,000)
Size (W * D * H, mm)	495 x 260 x 900
Weight (with circuit breaker) (kg)	56
Noise (approx.) (dB)	57
Standby Power Consumption (W)	<25

Display and Communication	
Display screen	Touch screen
Communication with BMS/Meter/EMS	RS485, CAN
Supported Communication Interfaces	RS485,4G (optional), Wi-Fi

R24KH2NA

Split-phase mixed-inverter

High-capacity battery

REVO Residential Energy Storage Series



product features

- UL Certification, Integrated Circuit Breaker
 - Supports remote firmware upgrades
- Compatible with mainstream battery brands
 - Single-unit bypass has a load capacity of 200 A and supports 100% unbalanced loads.

model	R15K3H2NA-G2	R17K2H2NA-G2	R20KH2NA-G2	R24KH2NA-G2
Photovoltaic Input Parameters				
Maximum Photovoltaic Input Power (kW)	23	25.8	30	36
MPPT quantity	4			
MPPT Voltage Range (V)	120~500			
Maximum Photovoltaic Input Voltage (V)	500			
MPPT Full Load Voltage Range (V)	150~430			
Maximum input current per MPPT path (A)	16+16 / 16+16 / 16+16 / 16+16			
Maximum short-circuit current per MPPT circuit (A)	22+22 / 22+22 / 22+22 / 22+22			

Battery Input Parameters				
Rated Voltage (Vdc)	300			
Maximum charge/discharge current (A)	50+50 / 50+50			
Battery Voltage Range (V)	120~400			
Maximum charge/discharge power (kW)	15.3	17.2	20	24
Battery Type	Lithium-ion batteries or lead-acid batteries			
Battery Charging Strategy	Self-adaption BMS			

Exchange Output Parameters (Grid Connection)				
Rated Output Power (kW)	15.3	17.2	20	24
Maximum Apparent Output Power (kVA)	15.3	17.2	20	24
Output Voltage Range (V)	211~264			
Output Frequency (Hz)	60 (58.8~61.2)			
Rated AC output current (A)	63.7	71.6	83.3	100
Maximum AC Output Current (A)	63.7	71.6	83.3	100
Power factor	>0.99 (0.8 ahead – 0.8 behind)			
THDi	<2%			
Maximum Grid Bypass Current (A)	200			

Exchange Output Parameters (Backup Power)				
Rated Output Power (kW)	15.3	17.2	20	24
Maximum Apparent Output Power (kVA)	48			
Rated output voltage (L-N/L1-L2) (V)	120 / 240			
Rated Output Frequency (Hz)	60			
THDu	<2%			

productiveness				
CEC productiveness	96.5%	96.5%	96.7%	96.4%

protect	
Ground Detection	Support
Arc Fault Protection	Support
Island Protection Against Voltage Surges	Support
Battery Reverse Connection Protection	Support
Insulation resistance testing	Support
Residual Current Monitoring Unit	Support
Overcurrent Protection Output	Support
Load Output Short-Circuit Protection	Support
Overvoltage Protection Output	Support
Output Undervoltage Protection	Support

Default Parameters	
Working Temperature Range (°C)	–25 to +60 (power rating reduced by more than 45%)
Relative humidity	0-85%
Work Altitude (m)	0Approximately 4,000 (power reduction of>2,000)
Levels of protection	IP65 / Type 3R
Weight (kg)	60
Size (W * D * H, mm)	555 * 290 *887
Cooling-down method	Air blast cooling
Noise (dB)	/
Show	Liquid Crystal Touch Screen
BMS/Meter/EMS Communication	RS485, CAN
Supported Communication Interfaces	RS485, WLAN, 4G (optional)
Standby Power Consumption (W)	< 65

R50KH3

Three-phase hybrid inverter

| 30-50kW

Industrial and Commercial Energy Storage Inverter Series



product features

- Maximum PV input power: 75 kW; MPPT voltage range: 150–850 V
- Equipped with a dual-battery interface, featuring a single-channel rated current of 80 A and compatibility with mainstream 314 Ah battery cells.
- With an IP65 protection rating, it can operate stably in outdoor environments ranging from -35°C to +60°C.
- Features four integrated MPPT modules, supports multi-string photovoltaic configurations with a maximum input current of 20 A per MPPT module, and is compatible with high-power PV modules.
- Supports 100% unbalanced loads, offering greater flexibility for asymmetric industrial and commercial applications.

model	R30KH3	R40KH3	R50KH3
Battery Parameters			
Maximum charge/discharge power (kW)	33	44	55
Battery Voltage Range (V)	150~800		
Maximum charge/discharge current (A)	80*2		
Battery Input Count	2		
Battery Type	Lithium cell		

Photovoltaic Input Parameters			
Maximum Photovoltaic Input Power (kW)	45	60	75
Maximum Photovoltaic Voltage (V)	1,000		
MPPT Voltage Range (V)	150~850		
Starting voltage (V)	180		
Maximum input current per MPPT path (A)	40 / 40 / 40 / 40		
Maximum Short-Circuit Current (A)	60 / 60 / 60 / 60		
MPPT quantity	4		
Number of strings each MPPT can connect to	2		
Rated input voltage (V)	600		
Exchange Output Parameters (Grid Connection)			
Rated AC output active power (kW)	30	40	50
Maximum AC output apparent power (kVA)	33	44	55
Rated AC output current (A)	45.6	60.8	76
Maximum AC Output Current (A)	50.1	66.9	83.6
Maximum AC continuous bypass current (from grid to load) (A)	200		
Rated grid voltage (V)	380 / 400		
Power factor	>0.99 (0.8 indicates leading; 0.8 indicates lagging)		
Network Type	3W+N+PE		
Rated grid frequency (Hz)	50/60		
THDi	<3%		
Exchange Output Parameters (Off-grid)			
Rated Output Power (kW)	30	40	50
Maximum Apparent Power (kVA)	33	44	55
Rated Output Voltage (V)	380 / 400, 0.85Un-1.1Un		
Backup Switch Time (ms)	<10		
Network Type	3W+N+PE		
THDu	<2%		
protect			
Island Protection	Support		
Photovoltaic Reverse Polarity Protection	Support		
Battery Reverse Polarity Protection	Support		
Insulation Monitoring	Support		
Residual Current Monitoring	Support		
Overcurrent Protection	Support		
Overpower Protection Communication	Support		
Backup Output Short-Circuit Protection	Support		
Short-circuit protection	Support		
Display and Communication			
Human-computer interaction	APP; touch screen		
BMS communication	RS485,CAN		
EMS communication	RS485		
Meter	RS485		
Communication interface	WIFI or 4G or GPRS		
Default Parameters			
Size (W * D * H, mm)	530*280*850		
Weight (kg)	73		
Levels of protection	IP65		
Working Temperature Range (°C)	-35~60°C		
Topology structure	Non-isolated type		
Relative humidity	0~100%		
Maximum Operating Altitude (m)	4,000 (power rating reduction of>2,000)		
Cooling-down method	Air blast cooling		
Noise (dB)	≤65		
Way to install	Wall mounting type		

R60KH3NA

Three-phase hybrid inverter

208/480V

| 36-60kW

Industrial and Commercial Energy Storage Inverter Series



Photovoltaic Input Parameters

Maximum Photovoltaic Grid Connection Power (kW)	54	90
Maximum Photovoltaic Input Power (kW)	54	90
Maximum Photovoltaic Voltage (V)	1,000	
MPPT Voltage Range (V)	150~550	150~850
Starting voltage (V)	180	
Maximum input current per MPPT path (A)	40 / 40 / 40 / 40	
Maximum Short-Circuit Current (A)	50 / 50 / 50 / 50	
MPPT quantity	4	
Number of strings each MPPT can connect to	2	
Rated input voltage (V)	600	

Exchange Output Parameters (Grid Connection)

Rated AC output power (kW)	36	60
Rated AC output current (A)	100	72
Maximum AC continuous bypass current (from grid to load) (A)	200	
Rated grid voltage (V)	208	480
Network Type	3W+N+PE	
Rated grid frequency (Hz)	50 / 60	
THDi	<3%	

Exchange Output Parameters (Off-grid)

Rated Output Power (kW)	36	60
Rated Output Voltage (V)	208(3W+N+PE)	480(3W+N+PE)
Rated output current (A)	100	72
Rated Frequency (Hz)	60	
THDu	<2%	

protect

Island Protection	Support
Photovoltaic Reverse Polarity Protection	Support
Battery Reverse Polarity Protection	Support
Insulation Monitoring	Support
Residual Current Monitoring	Support
Overcurrent Protection	Support
Overpower Protection Communication	Support
Backup Output Short-Circuit Protection	Support
Short-circuit protection	Support
RSD ejector	Support

Display and Communication

Human-computer interaction	APP; touch screen
BMS communication	CAN
EMS communication	RS485
Meter	RS485
Communication interface	WIFI or 4G or GPRS

Default Parameters

Size (W * D * H, mm)	530*280*850
Weight (kg)	73
Levels of protection	IP65
Working Temperature Range (°C)	-35~60°C
Topology structure	Non-isolated type
Relative humidity	0~100%
Maximum Operating Altitude (m)	4,000 (power rating reduction of>2,000)
Cooling-down method	Air blast cooling
Noise (dB)	≤65
Way to install	Wall mounting type

product features

- Maximum PV input power: 90 kW; MPPT voltage range: 150–850 V
- Equipped with a dual-battery interface, featuring a single-channel rated current of 80 A and compatibility with mainstream 314 Ah battery cells.
- With an IP65 protection rating, it can operate stably in outdoor environments ranging from -35°C to +60°C.
- Features four integrated MPPT modules, supports multi-string photovoltaic configurations with a maximum input current of 20 A per MPPT module, and is compatible with high-power PV modules.
- Supports 100% unbalanced loads, offering greater flexibility for asymmetric industrial and commercial applications.

model	R36KH3NA 208V	R60KH3NA 480V
Battery Parameters		
Rated Power (kW)	36	60
Battery Voltage Range (V)	150~500	150~800
Maximum charge/discharge current (A)	80*2	
Battery Input Count	2	
Battery Type	Lithium cell	