

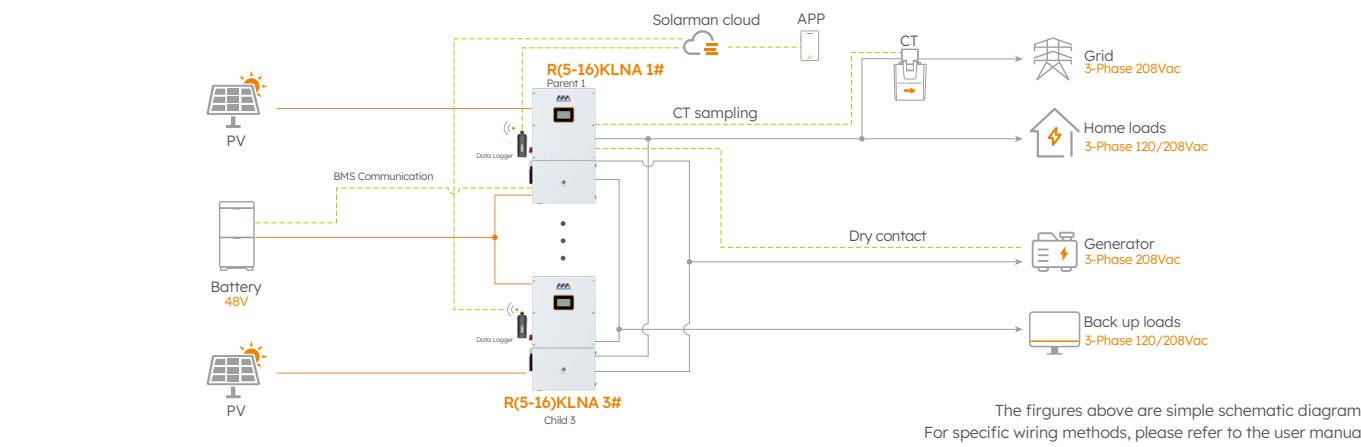
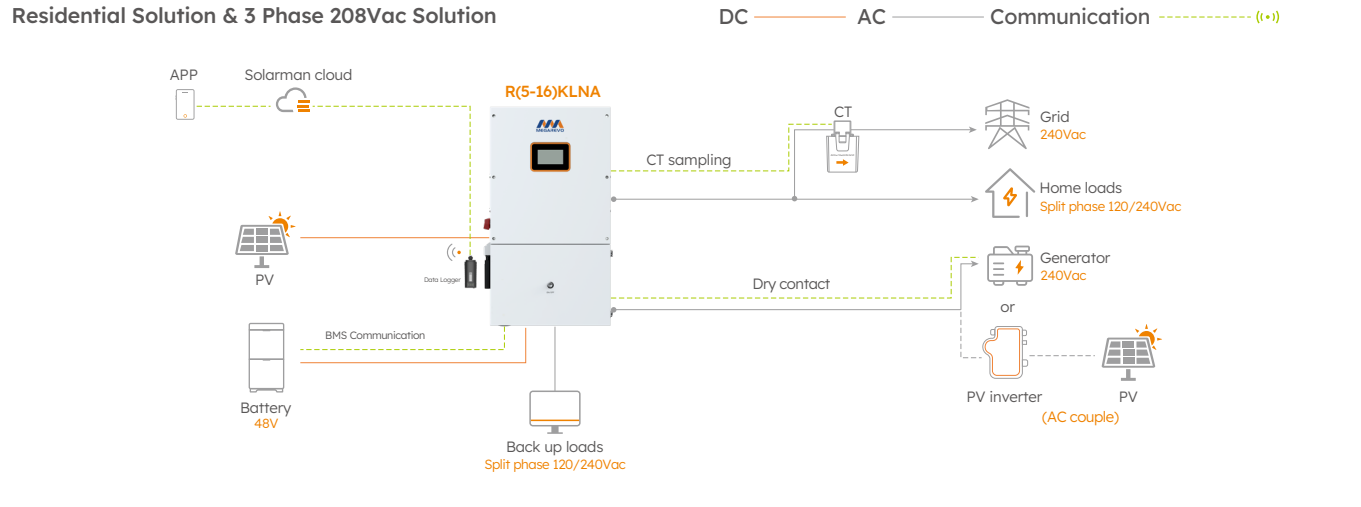
封底-BACK COVER

KEY FEATURES

- Support multiple units working in parallel and 3 phase 208Vac.
- Capable of 100% unbalanced loads.
- Remote adjustment via Solarman.
- Time of Use(6 period a day).
- 4 MPPTs & 1.5 times PV input.
- AC solar to retrofit existing solar system(on-grid & off-grid).
- Breakers Built-in(Grid,Battery,Load,Diesel Generator).
- 100A pass through(5-10kW), 200A pass through(12-16kW).

MEGAREVO SOLUTION

Residential Solution & 3 Phase 208Vac Solution



The figures above are simple schematic diagram.
For specific wiring methods, please refer to the user manual

COMPATIBLE BATTERY BRANDS



SOLUNA

Pytes

MORE
battery brands
continuously updated

GSL ENERGY

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封面-COVER



ENERGY STORAGE PRODUCT AND SOLUTION

Professional Hybrid Inverter Manufacturer

MAKE ENERGY CLEANER AND MORE EFFICIENT

ABOUT MEGAREVO

As a world leading brand of hybrid inverters, Shenzhen Megarevo Technology Co., Ltd. (hereinafter referred to as "Megarevo") was established in 2018. Headquartered in Shenzhen, China, the company operates four major service centers worldwide and two production bases in China.

As a high-tech enterprise, Megarevo is focusing on residential energy storage, commercial and industrial (C&I) energy storage, microgrids inverter developments. We providing both standardized hybrid inverter also customized solutions to meet diverse different client's needs. Megarevo's portfolio including REVO series residential hybrid inverters, PMAE modular PCS, MEGA C&I energy storage inverters, MPS microgrid inverters, and energy storage systems. These products has certifications such as UL, CE, TUV, NRS, etc.....covering main markets like North America, Europe, Southeast Asia, Africa, etc.

"Make energy cleaner and more efficient," Megarevo is committed to technological innovation, providing customers with leading, stable, and valuable solutions. Moving forward, Megarevo will together with more and more partners to contribute to the green earth.



🕒 2018

Establishment of the company

👥 500+

Employee globally

📈 5GW+

Cumulative deliveries to date

Split-phase hybrid inverter

Max. PV input power
7.5~15kW

R(5-10)KLNA
(Battery voltage: 48V)



Model	5K		6K		7.6K		8K		10K		
PV input data											
Max. PV input power (kW)	7.5		9		12		12		15		
Max. PV input voltage (V)					500						
Min. PV input voltage (V)					120						
Start-up voltage (V)					120						
MPPT voltage range (without battery)(V)					120~500						
MPPT voltage range@full-load (V)					150~430						
Rated PV input voltage (V)					310						
No. of MPPT trackers					4						
No. of strings per MPPT tracker					1/1/1/1						
Max. input current per MPPT (A)					14/14/14/14						
Max. short-circuit current per MPPT (A)					22/22/22/22						
Battery input data											
Battery type					Lithium-ion / Lead-acid						
Max. charge / discharge power (kW)	5		6		7.6		8		10		
Battery voltage range (V)					40~60						
Rated battery voltage (V)					48						
Max. charging / discharging current (A)	120/120		135/135		190/190		190/190		190/210		
Rated charge / discharge current (A)	120/120		135/135		190/190		190/190		190/210		
Charging strategy for Li-ion battery					Self-adaptation to BMS						
BMS communication					CAN						
AC output data (grid side)											
Rated output power (kW)	5		6		7.6		8		10		
Max. apparent output power (kVA)	5.5		6.6		8.4		8.8		11		
Rated grid voltage (V)	110-127/208-240V split phase, 240V single phase										
Grid voltage range (V)	192~288										
Rated grid frequency (Hz)	60										
Grid frequency range(Hz)	55 to 65										
Rated output current (A)	20.8		25		31.7		33.3		41.7		
Max. AC output current (A)	22.9		27.5		34.8		36.7		45.8		
Power factor	0.8leading~0.8lagging										
Max. grid passthrough current(A)	100										
THDi	<3%										
Grid type	2L+N+PE										
AC output data (load side)											
Rated output power (kW)	5		6		7.6		8		10		
Max. apparent output power (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										
Rated output current (A)	20.8		25		31.7		33.3		41.7		
Max. AC output current (A)	22.9		27.5		34.8		36.7		45.8		
Peak output power	110%, 30s / 120%, 10s / 150%, 0.02s										
Back-up switch time (ms)	<20										
THDu	<2%										
Protection											
Supported protection	Arc fault 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 II / AC Type II										
Over voltage category	DC Type II / AC Type III										
Certifications and standards											
Certificates	FCC Part 15 Class B, UL1741SA all options, UL1699B, CSA 22.2; IEEE1547										
General data											
Ingress protection	IP65 / NEMA 3R										
Operating temperature range (°C)	-25~+60										
Cooling	Fan cooling										
Relative humidity	0~95%										
Operating altitude (m)	0~4,000(Derating above 2,000 altitude)										
Dimensions W*D*H (mm)	450 x 820 x 240										
Weight (kg)	47										
Topology (solar / battery)	Transformerless / Transformer										
Noise emission (dB)	48										
Display and communication											
Display	Touch panel										
Communication	RS485, 4G(optional), Wi-Fi										

Split-phase hybrid inverter

Max. PV input power
18~24kW

R(12-16)KLNA
(Battery voltage: 48V)



Model	12K	16K
PV input data		
Max. PV input power (kW)	18	24
Max. PV input voltage (V)	500	
Min. PV input voltage (V)	120	
Start-up voltage (V)	120	
MPPT voltage range (without battery)(V)	120~500	
MPPT voltage range@full-load (V)	150~430	
Rated PV input voltage (V)	310	
No. of MPPT trackers	4	
No. of strings per MPPT tracker	1/1/1/1	
Max. input current per MPPT (A)	16/16/16/16	20/20/20/20
Max. short-circuit current per MPPT (A)	22/22/22/22	25/25/25/25
Battery input data		
Battery type	Lithium-ion / Lead-acid	
Max. charge / discharge power (kW)	12	13
Battery voltage range (V)	40~58	
Rated battery voltage (V)	48	
Max. charging / discharging current (A)	250/260	260/280
Rated charge / discharge current (A)	250/260	260/280
Battery charging strategy	Self-adaptation to BMS	
BMS communication	CAN	
AC output data (grid side)		
Rated output power (kW)	12	16
Max. apparent output power (kVA)	13.2	16
Rated grid voltage (V)	110-127/208-240V split phase, 240V single phase	
Grid voltage range (V)	240	
Rated grid frequency (Hz)	60	
Grid frequency range(Hz)	55~65	
Rated output current (A)	50	66.7
Max. AC output current (A)	55	73.3
Power factor	0.8leading~0.8lagging	
Max. grid passthrough current(A)	200	
THDi	<3%	
Grid type	2L+N+PE	
AC output data (load side)		
Rated output power (kW)	12	13
Max. apparent output power (kVA)	13.2	13.2
Rated output voltage (L-N/L1-L2) (V)	120/240	
Rated output frequency (Hz)	60	
Rated output current (A)	50	54
Max. AC output current (A)	55	55
Peak output power	110%, 30s / 120%, 10s / 150%, 0.02s	
Back-up switch time (ms)	<20	
THDu	<2%	
Protection		
Supported protection	Arc fault 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 II / AC Type II	
Over voltage category	DC Type II / AC Type III	
Certifications and standards		
Certificates	FCC Part 15 Class B, UL1741,UL1741SA&SB all options, UL1699B, CSA -C22.2 NO.107.1-01,RSD/NEC690.5,11,12	
General data		
Ingress protection	IP65 / NEMA 3R	
Operating temperature range (°C)	-25~+60	
Cooling	Fan cooling	
Relative humidity	0~95%	
Operating altitude (m)	0~4,000(Derating above 2,000 altitude)	
Dimensions W*D*H (mm)	495 x 900 x 260	
Weight (kg)	55	
Topology (solar / battery)	Transformerless / Transformer	
Noise emission (dB)	48	
Display and communication		
Display	Touch panel	
Communication	RS485, 4G(optional), Wi-Fi	

Split-phase hybrid inverter

Max. PV input power
24~36kW

R(16-24)KH2NA
(Battery voltage: 120~400V)



Model	16K		18K		20K		22K		24K	
PV input data										
Max. PV input power (kW)	24		27		30		33		36	
Max. PV input voltage (V)					500					
Min. PV input voltage (V)					120					
Start-up voltage (V)					120					
MPPT voltage range (V)					120~500					
MPPT voltage range@full-load (V)					150~430					
Rated PV input voltage (V)					310					
No. of MPPT trackers					4					
No. of strings per MPPT tracker					2/2/2/2					
Max. input current per MPPT (A)					32/32/32/32					
Max. short-circuit current per MPPT (A)					44/44/44/44					
Battery input data										
Battery type	Lithium-ion / Lead-acid									
Max. charge / discharge power (kW)	16		18				22		24	
Battery voltage range (V)					120~400					
Battery voltage range@full-load (V)	160~400		180~400		200~400		220~400		240~400	
Max. charging / discharging current (A)					50~50 / 50~50					
Rated charge / discharge current (A)					50~50 / 50~50					
Battery charging strategy	Self-adaptation to BMS									
BMS communication	CAN									
AC output data (grid side)										
Rated output power (kW)	16		18		20		22		24	
Max. apparent output power (kVA)	16		18		20		22		24	
Max. apparent input power(kVA)	16		18		20		22		24	
Rated grid voltage (V)					120/240					
Grid voltage range (V)					211~264					
Grid input voltage (V)					240					
Rated grid frequency (Hz)					60					
Grid frequency range(Hz)					58.8~61.2					
Rated output current (A)	66.6		75		83.3		91.6		100	
Max. AC output current (A)	66.6		75		83.3		91.6		100	
Max. apparent input current (A)	66.6		75		83.3		91.6		100	
Max. grid passthrough current(A)					200					
Power factor	0.8 leading ~ 0.8 lagging									
Grid type	1L1/L2+N+PE									
AC output data (load side)										
Rated output power (kW)	16		18		20		22		24	
Max. apparent output power (kVA)	16		18		20		22		24	
Max. apparent input power(kVA)	16		18		20		22		24	
Rated output voltage (V)					120 / 240					
Rated output frequency (Hz)					60					
Rated output current (A)	66.6		75		83.3		91.6		100	
Max. AC output current (A)					200					
Back-up switch time (ms)					<20					
Protection										
Supported protection	PV reverse polarity protection, Anti-islanding protection, Ground fault protection, Leakage current protection, Inverter resonance detection, Backup output short circuit protection, Arc fault protection, AC output over current protection									
Surge protection	DC Type II / AC Type II									
Over voltage category	DC Type II / AC Type III									
General data										
Ingress protection	IP65									
Operating temperature range (°C)	-25~+60									
Cooling	Fan cooling									
Relative humidity	0~85%									
Operating altitude (m)	/									
Dimensions W*D*H (mm)	/									
Weight (kg)	/									
Topology (solar / battery)	Transformerless / Transformerless									
Noise emission (dB)	/									
Display and communication										
Display	Touch panel									
Communication	RS485,CAN,WIFI,4G									