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more information 2023 V1.0

ENERGY STORAGE PRODUCT AND SOLUTION "MAKE ENERGY CLEANER AND MORE EFFICIENT"

Catalog | 2023



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ABOUT MEGAREVO

Established in 2018, Megarevo is a professional supplier of hybrid inverters, with cumulative inverter deliveries of 2.2GW+ to date.

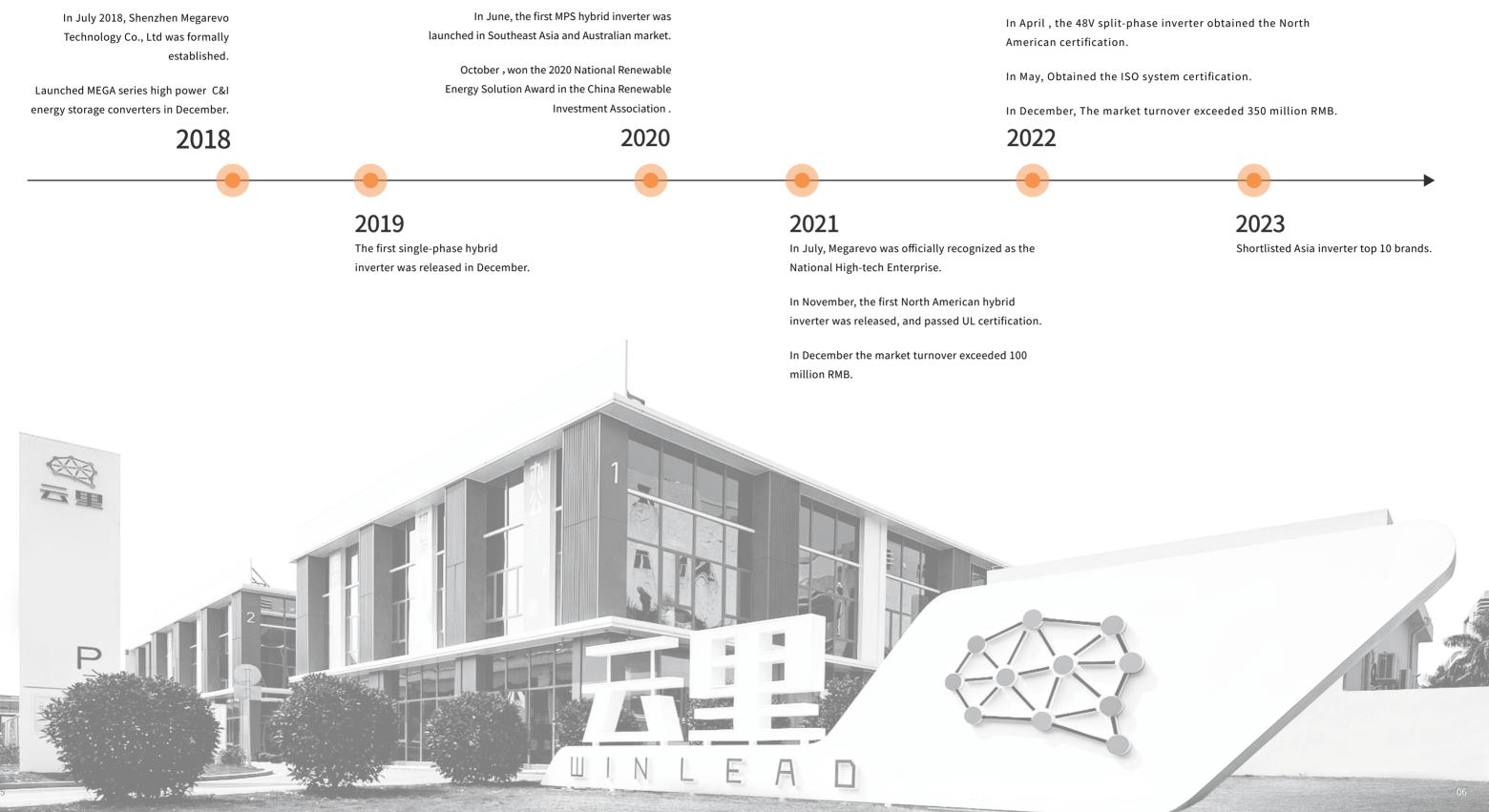
Megarevo focuses on four application scenarios: residential energy storage, C&I energy storage, microgrid and grid-side energy storage, providing customers with standardized hybrid inverters, customized solutions and ODM services. Megarevo inverters include MEGA and REVO series of PCS, MPS microgrid products and energy storage systems, which have passed CGC, CE, TUV, UL, NRS certifications and the certifications in North America, the UK, Germany, Italy, Poland, Pakistan, South Africa, Australia and other regions.

With the mission of "make energy cleaner and more efficient", Megarevo always insists on innovation to provide high-quality and reliable products and services, and works together with global partners to move towards a sustainable future.





DEVELOPMENT PROCESS



ENTERPRISE QUALIFICATION

TOP 10 Asian Energy Storage Inverter Brands

Top 10 Domestic Energy Storage Inverter

》Won the Best Energy Storage PCS Supplier Award of China Energy Storage Network for four consecutive years.

Won the Best Small and Medium Power PCS Supplier by China Leader Energy Storage Alliance.

%China National High-tech Enterprises

%China National Excellent Technical Solution Provider of New Energy Storage.





MEGAREVO



PRODUCTS LINE

Residential Products

Single-phase ESS Hybrid Inverter



G2 Hybrid Inverter



Three-phase ESS Hybrid Inverter



American ESS split-phase Inverter (Battery voltage>80V)



Micro-grid/ Grid Products

Hybrid Inverter



Power Conversion System (Without isolation transformer)



MEGA0500 MEGA0630 Power Conversion System (With isolation transformer)



ESS

Storage Battery Cabinet



Outdoor Cabinet Type ESS



ESSO0200A-0150



Container ESS



American ESS Split-phase Inverter (Battery voltage:48V)

- 000
- R5KLNA
- R6KLNA
- R8KLNA
- R10KLNA

Container Type Energy Storage Booster



- MEGA1000-MV
- MEGA1260-MV
- MEGA2000-MV
- MEGA2500-MV

EMS, Communication Management Machine and Data Acquisition Stick

ESSC0500A-1106





Single-phase ESS Hybrid Inverter





MEGAREVO

L1 series single-phase hybrid inverters support simultaneous input of PV, batteries, DG, power grids, and loads. It has multiple application modes such as self-consume, peak shaving and valley filling, and backup power supply. It supports parallel connection of multiple machines and is suitable for various applications of home energy storage.



- Transfer time of on / off-grid ≤ 20ms.
- Compatible with lead-acid and lithium-ion battery access.
- 🕱 Strong impact load capacity of off-grid belt.

REVO Residential Energy Storage Inverters

Input (PV)

mput (FV)									
Model	R3KL1	R3K6L1	R4KL1	R4K6L1	R5KL1	R6KL1			
Max. power(kW)	4.6	4.6	6	6	7	7			
Max. DC voltage(V)	550								
MPPT voltage range(V)			125-	-500					
Max.input current of single MPPT(A)	14								
MPPT tracker/strings	2/1								

AC output

Model	R3KL1 R3K6L1		R4KL1	R4KL1 R4K6L1		R6KL1				
Rated output power(kVA)	3 3.68		4	4.6	5	6				
Max. output current(A)	13	16	17.4	20	21.7	26				
Grid voltage/range(V)	230/176~270									
Frequency (Hz)			50,	60						
PF			0.99lagging-	0.99leading						
THDi	<2%									
AC output topology			L+N	+PE						

Battery

Model	R3KL1	R3K6L1	R4KL1	R4K6L1	R5KL1	R6KL1						
Battery voltage range(V)		40~58										
Max. charging voltage(V)	58											
Max. charge/discharge current(A)	95/62.5	95/76.6	95/83.3	95/95.8	95/104.2	95/110						
Battery type			lithium /L	.ead-acid								
Communication interface		CAN/RS485										

EPS output

Model	R3KL1	R3K6L1	R4KL1	R4KL1 R4K6L1		R6KL1						
Rated power (kVA)	3	3.68	4	4.6	5	6						
Rated output voltage(V)		230										
Rated output current(A)	13	16	17.4	20	21.7	26						
Rated frequency (Hz)			50 /	60								
Automatic switching time (ms)			<2	.0								
THDu		<2%										
Overload capacity			110%, 30S/120%,	110%, 30S/120%, 10S/150%, 0.02S								

General data

Model	R3KL1	R3K6L1	R4KL1	R4K6L1	R5KL1	R6KL1					
Battery chage/dischage efficiency	95.0%										
DC Max. efficiency	97.6%										
Europe efficiency	97.0%										
MPPT efficiency		99.9%									
Ingress protection		IP65									
Noise emission (dB)	<40										
Operation temperature (°C)	- 25~ 60										
Cooling			Nat	ural							
Relative humidity			0~95% (non-	condensing)							
Altitude			2,000m(>2,0	00 Derating)							
Dimensions W * D * H (mm)			550*20	0*520							
Weight (kg)			2	5							
Isolation transformer			N	0							
Self-consumption (W)			<	3							

Display and communication

Model	R3KL1 R3K6L1 R4KL1 R4K6L1 R5KL1 F										
Display	LCD										
Interface:RS485/Wifi/4G/CAN/ DRM	Yes/ Opt/ Opt/ Yes/ Yes										
Safety standard	IEC/EN62109-1/-2										
EMC			IEC/EN 61000-6-1,	IEC/EN 61000-6-3							
On-grid	South Africa NRS097-2-1:2017, UK G98,G99,EN 50549-1,Italy CEI 0-21, Germany VDE4105,IEC61727/62116/61683, Sweden EIFS 2018: 2										



G2 Hybrid Inverter

REVO Residential Energy Storage Inverters

DC Input

Dompar									
Model	R3KL1-G2	R3K6L1-G2	R4KL1-G2	R4K6L1-G2	R5KL1-G2	R6KL1-G2	R8KL1-G2		
Max. Input Power (kW)	4.5	5.4	6	6.9	7.5	9	12		
Start-up Voltage (V)	100								
Max. PV Voltage(V)	500								
MPPT Range/Nominal (V)				125~500/360					
Max. Input Current(A)	16/16	16/16	16/16	16/16	16/16	16/16	16/32		
MPPT Tracker/Strings	2/1	2/1	2/1	2/1	2/1	2/1	3/2+1		

AC output

Model	R3KL1-G2	R3KL1-G2 R3K6L1-G2 R4KL1-G2 R4K6L1-G2 R5KL1-G2 R6KL1-G2 R8KL								
Rated Power (kVA)	3	3.68	4	4.6	5	6	8			
Max. Output Current(A)	14.3	16	19.1	20	21.7	28.7	38.3			
Nominal Voltage/Range(V)		230 /176~270								
Frequency (Hz)		50 /60								
Power factor			1(0.9	9 lagging-0.99 lea	ding)					
THDi		<3%								
AC output topology		L+N+PE								

Battery

Model	R3KL1-G2	R3K6L1-G2	R4KL1-G2	R4K6L1-G2	R5KL1-G2	R6KL1-G2	R8KL1-G2				
Battery voltage range(V)		40~58									
Max. charging voltage(V)	58										
Max. charge/discharge current(A)	60	72	80	92	100	120	160				
Communication Interface	CAN										

EPS output

Model	R3KL1-G2	R3K6L1-G2	R4KL1-G2	R4K6L1-G2	R5KL1-G2	R6KL1-G2	R8KL1-G2			
Rated power (kW)	3	3.6	4	4.6	5	6	8			
Rated voltage(V)	230									
Rated current(A)	13	16	17.4	20	21.7	26	35			
Rated frequency(Hz)		50 / 60								
Automatic switching time(ms)				<10						
THDu	<2%									
Overload capacity		110%, 60S/120%, 30S/150%, 10S								

General data

Model	R3KL1-G2	R3K6L1-G2	R4KL1-G2	R4K6L1-G2	R5KL1-G2	R6KL1-G2	R8KL1-G2				
Battery chage/dischage efficiency		96.5%									
DC Max. efficiency		98.2%									
Europe efficiency		97.5%									
MPPT efficiency		99.9%									
Ingress protection		IP65									
Noise emission (dB)		<35									
Operation temperature (°C)		-25~ 60									
Cooling				Natural							
Relative humidity			0~95	% (non-condens	ing)						
Altitude			2,00	00m (>2,000 Derat	ing)						
Dimensions W * D * H (mm)				451*212*474			467*200*484				
Weight (kg)	18 20										
Inverter Topology		transformerless									
Self-consumption(W)				<3							

Display and communication

Model	R3KL1-G2	R3K6L1-G2	R4KL1-G2	R4K6L1-G2	R5KL1-G2	R6KL1-G2	R8KL1-G2
Display				/			
Interface:RS485 / Wifi / 4G / CAN / DRM			Yes	s/ Opt/ Opt/ Yes/ Y	′es		



R

> KEY STRENGTHS

- Small, light, easy to install, can save 50% labor installation cost.
- High efficiency, improve the battery charging and discharging efficiency 96%.



- Suitable for the latest 210mm high-power PV panel (Isc=18.5A).



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Communication

base station

- The high power can cover 3~8kW to meet the single-phase load requirements of users.
- Support mobile phone (Bluetooth +WIFI) setting and maintenance.
- 吕 Integrated RSD and PLC(TBD).



Support 6 machines in parallel.

Based on the excellent performance of the previous generation of products, G2 hybrid inverter has improved the product volume and weight, making the product lighter and smaller, the full load efficiency has been increased by 0.5%, and the cost performance has been greatly improved.

Nomadic farm

> APPLICATION AREA

Residential

electricity

Luxury villa

5	Compatib
	access.

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customized).

ble with lead-acid and lithium-ion battery ess.

Screen optional (no screen, touch color screen can be



REVO Residential Energy Storage Inverters

Input DC (PV)										
Model	R6KH3	R6KH3-P	R8KH3	R8KH3-P	R10KH3	R10KH3-P	R12KH3	R12KH3-P	R15KH3	R15KH3-P
Max.PV Input Power (kW)	9	9	12	12	15	15	18	18	22.5	22.5
Max. PV Voltage (V)					1,0	000			1	
MPPT Voltage Range (V)					180	~850				
Full Power MPPT Voltage Range (V)	250~850	250~850	330~850	330~850	430~850	430~850	510~850	510~850	620~850	425~850
Start-up Voltage (V)		125								
Max.Input Current Per MPPT (A)	13/13	16/16	13/13	16/16	13/13	16/16	13/13	16/16	13/13	20/20
Max. Short-circuit Current (A)	16/16	25/25	16/16	25/25	16/16	25/25	16/16	25/25	25/25	30/30
Number of MPPT Rackers		2								
MPPT Number/ Max. Input Strings Number	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	2/2
Rated Input Voltage (V)					7	00				

AC Output Data(on-grid)

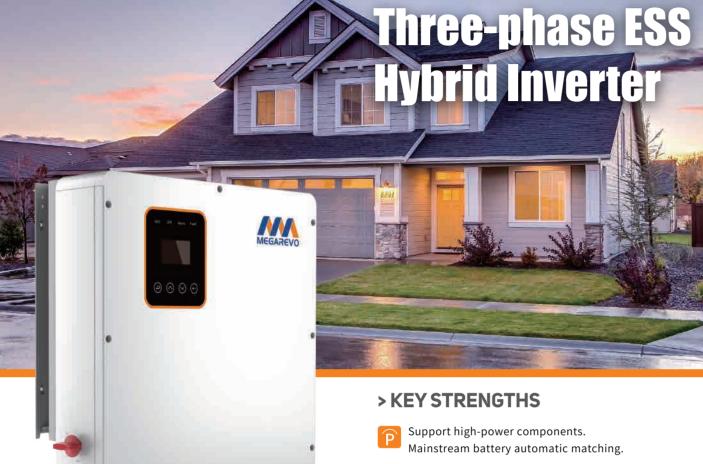
Model	R6KH3	R6KH3-P	R8KH3	R8KH3-P	R10KH3	R10KH3-P	R12KH3	R12KH3-P	R15KH3	R15KH3-P
Nominal Output Power to Grid (kVA)	6	6	8	8	10	10	12	12	15	15
Max. Apparent Power to Grid (kVA)	6.6	6.6	8.8	8.8	11	11	13.2	13.2	16.5	16.5
Max. Apparent Power from Grid (kVA)	13.2	13.2	17.6	17.6	22	22	26.4	26.4	33	33
Max. Apparent Current from Grid (A)	19.1	19.1	25.5	25.5	31.8	31.8	38.2	38.2	47.6	47.6
Nominal Output Current to Grid (A)	8.7	8.7	11.5	11.5	14.4	14.4	17.3	17.3	21.7	21.7
Max.Output Current to Grid (A)	9.5	9.5	12.7	12.7	15.9	15.9	19.1	19.1	23.8	23.8
Nominal Grid Voltage (V)					380/400,	3W+N+PE				
Nominal Grid Frequency (Hz)		50/60								
THDi		<3%								

Battery

R6KH3	R6KH3-P	R8KH3	R8KH3-P	R10KH3	R10KH3-P	R12KH3	R12KH3-P	R15KH3	R15KH3-P
6.6	6.6	8.8	8.8	11	11	13.2	13.2	16.5	16.5
	125~600								
	150~550								
	50								
	40								
			Lit	thium and Le	ad Acid Batte	ry			
				6.6 6.6 8.8 8.8	6.6 6.6 8.8 8.8 11 125- 150- 5 4	6.6 6.6 8.8 8.8 11 11 125~600 150~550 50 40	6.6 6.6 8.8 8.8 11 11 13.2 125~600 150~550	6.6 6.6 8.8 8.8 11 11 13.2 13.2 125~600 550	

EPS Data(back up)

	-									
Model	R6KH3	R6KH3-P	R8KH3	R8KH3-P	R10KH3	R10KH3-P	R12KH3	R12KH3-P	R15KH3	R15KH3-P
Nominal Output Power (kVA)	8	8	8	8	10	10	12	12	15	15
Max. Apparent Power (kVA)	8.8	8.8	8.8	8.8	11	11	13.2	13.2	16.5	16.5
Nominal Output Current (A)	8.7	8.7 11.5 11.5 14.4 14.4 17.3 17.3 21.7								21.7
Max.Output Current (A)	9.5	9.5	12.7	12.7	15.9	15.9	19.1	19.1	23.8	23.8
Nominal Output Voltage (V)		400 ,3W+N+PE								
Nominal Output Frequency (Hz)					50	/60				
THDu					<	2%				
Max.Efficiency	97.9%	97.9%	97.9%	97.9%	98.2%	98.2%	98.2%	98.2%	97.6%	97.6%
Europe Efficiency	97.2%	97.2%	97.2%	97.2%	97.5%	97.5%	97.5%	97.5%	97.8%	97.8%
MPPT Efficiency	99.9%									
Max.Battery Charge/ Discharge Efficiency	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%	97.6%	97.6%	97.8%	97.8%



Support full power discharge, automatic battery charge and discharge management.

General Data

Model	R6KH3	R6KH3-P	R8KH3	R8KH3-P	R10KH3	R10KH3-P	R12KH3	R12KH3-P	R15KH3	R15KH3-P
Ingress Protection					IP	65				
Operating Temperature Range(°C)					-25	~60				
Relative Humidity					0~1	00%				
Operating Altitude (m)				4	,000 (Deratin	g above 2,000)			
Dimensions W*H*D (mm)					530*5	60*220				
Weight (kg)	30	0 30 31 31 31 31 33 33 34							34	
Cooling		Natural								
Noise Emission (dB)					\$	25				
Installation					Wall M	ounted				
EMC					-	IEC/EN 61000 A2:2021, IEC/E	-		-	1
Grid Regulation	/DIN VDE V	Europe: EN 50549-1:2019/AC:2019, Poland:EN50549-1:2019/Rfg:2016/NC Rfg:2018/PTPiREE:2021, Germany:VDE-AR-N 4105:2018 /DIN VDE V 0124-100(VDE V 0124-100):2020, South Africa:NRS 097-2-1:2017 Edition 2.1, UK:G98/G99/1-6:2022, Spain:UNE217001:2020 /UNE217002:2020/NTS V2.1:2021-07, IEC61727:2004/IEC62116:2014/IEC61683:1999, Hungary:EN50549-1:2019/RFG:2016/Hungary								
Safety Regulation				IEC/EN6	52109-1:2010	, IEC/EN62109	-2:2011			

Display and communication

Model	R6KH3	R6KH3-P	R8KH3	R8KH3-P	R10KH3	R10KH3-P	R12KH3	R12KH3-P	R15KH3	R15KH3-P
НМІ		LCD;APP								
BMS		RS485,CAN								
EMS/Meter		RS485/RS485								
Supported Communication Interface					WIFI /	GPRS				



American ESS Split-phase Inverter Battery voltage:>80V

> KEY STRENGTHS



(A) Single-machine bypass load capacity 100A.

In the case of off-grid, it can be used to

guarantee the critical load.





MEGAREVO

MA

Support remote monitoring, upgrade and automatic battery management.

Support battery BMS remote upgrade.

REVO Residential Energy Storage Inverters

Innut (PV)

IIIput (FV)							
Model	R6KH1NA	R8KH1NA	R10KH1NA	R12KH1NA			
Max. power(kW)	7.8	10.4	13	15.6			
Max. DC voltage(V)	550						
MPPT voltage range(V)		125-	~500				
Max.input current of single MPPT(A)	12						
MPPT tracker/strings		4,	/1				

AC output

Model	R6KH1NA	R8KH1NA	R10KH1NA	R12KH1NA			
Rated output power(kVA)	6	8	10	12			
Max. apparent Power (kVA)	6.6	8.8	11	12			
Max. output current(A)	27.5	36.7	45.8	50			
Grid voltage/range(V)	240/211~264						
Frequency (Hz)		50/	/60				
PF		0.8lagging-	-0.8leading				
THDi	< 3%						
AC output topology	L+N+PE						

Battery

Model	R6KH1NA	R8KH1NA	R10KH1NA	R12KH1NA					
Battery voltage range(V)		85~400							
Max. charging voltage(V)		400							
Full battery voltage(V)	85	85 110 140 160							
Max. charge/discharge current(A)		80/	/80						
Battery type	lithium /Lead-acid								
Communication interface		CAN,RS485							

EPS output

Model	R6KH1NA R8KH1NA R10KH1NA R12							
Rated power(kVA)	6 8 10 1							
Rated output voltage(V)		220-240 /110-120						
Rated frequency(Hz)	50/60							
Automatic switching time(ms)		<2	20					
THDu	< 2%							
Overload capacity		110%,30S/120%,10S/150%,0.02S						

General data

Model	R6KH1NA	R8KH1NA	R10KH1NA	R12KH1NA	
Max. efficiency		≥98	8.2%		
CEC efficiency		≥97	7.2%		
Ingress protection		IP65/N	EMA 3R		
Noise emission(dB)	<25	<25	<29	<29	
Operation temperature (°C)		-25	~60		
Cooling		Nat	ural		
Relative humidity		0~95% (non-	-condensing)		
Altitude		2,000m(>2,0	000 Derating)		
Weight(kg)	34				
Dimensions W * D * H (mm)		560* 22	20* 680		

Display and communication

Model	DCKUINA	DOKUINA	DIOKUINA	DIOKUINA				
Μοάει	R6KH1NA R8KH1NA R10KH1NA R12KH1NA							
Display		LC	CD					
Interface:RS485/Wifi/4G/CAN/DRM		Yes/ Opt/ Ves/ Yes						
Standby power consumption at night(W)	< 2.5 (With the battery < 5)							
Isolation transformer		Ye	es					
Safety standard		UL1741SA all option	s, UL1699B, CSA 22.2					
EMC		FCC Part 15, Class B						
On-grid		IEEE 1547, Rule	21 Phase I,II,III					

The H1 series high-voltage hybrid inverter is specially designed for the American market. It consists of an inverter and transformer. It can meet the battery voltage range of 85~400V and is suitable for large-capacity home energy storage systems in North America.



American ESS Split-phase nverter

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Battery voltage: 48V

> KEY STRENGTHS

5 Support 6 machines in parallel.



UPS In the case of off-grid, it can be used to guarantee the critical load.



5 Support battery BMS remote upgrade.

> APPLICATION AREA

R Θ Luxury villa Residential Nomadic farm Communication electricity base station

LNA series low-voltage north american hybrid inverter can be widely used in various home storage application environments. Combined with smart display, it makes operation and maintenance easier.

REVO Residential Energy Storage Inverters

Innut (PV)

Input (FV)							
Model	R5KLNA	R6KLNA	R8KLNA	R10KLNA			
Max. power(kW)	7.5 9 12 13						
Max. DC voltage(V)	500						
MPPT voltage range(V)		120~500					
Max.input current of single MPPT(A)		14					
MPPT tracker/strings	4/1						

AC output

Model	R5KLNA	R6KLNA	R8KLNA	R10KLNA			
Rated output power(kVA)	5	6	8	10			
Max. apparent Power (kVA)	5.5	6.6	8.8	11			
Max. output current(A)	24	28.8	38.3	47.8			
Ac output voltage(V)	120/240(split phase), 208(2/3 phase),230 (single phase)						
Frequency (Hz)		50,	/60				
PF		0.8lagging-	-0.8leading				
THDi	< 3%						
AC output topology	Split phase, 2/3 phase, single phase						

Battery

Model	R5KLNA R6KLNA R8KLNA R10K						
Battery voltage range(V)	40~58						
Max. charging voltage(V)	58						
Max. charge/discharge current(A)	120/120	135/135	190/190	190/210			
Battery type		lithium /Lead-acid					
Communication interface	CAN/RS485						

EPS output

Model	R5KLNA	R6KLNA	R8KLNA	R10KLNA				
Rated power(kVA)	5	6	8	10				
Rated output voltage(V)		120/240 (split phase), 208 (2/3 phase),230 (single phase)						
Rated output current(A)	24	28.8	38.3	47.8				
Rated frequency(Hz)		50	/60					
Automatic switching time(ms)		<	20					
THDu		< 2%						
Overload capacity		125%,60S/150%,1S						

General data

Veneratuata							
Model	R5KLNA	R6KLNA	R8KLNA	R10KLNA			
Max. efficiency		≥98	3.2%				
North american efficiency		≥97	7.2%				
Ingress protection		IP65/NEMA 3R					
Operation temperature (°C)		-25	~ 60				
Noise emission(dB)	<25	<25 <29 <29 <2					
Cooling		Force	ed air				
Relative humidity		0~95% (non-	-condensing)				
Altitude		2,000m(>2,0	00 Derating)				
Dimensions W *D *H (mm)		460*22	25*760				
Weight(kg)		41					
Isolation transformer		N	lo				
Self-consumption(W)		<	3				

Display and communication

Model	R5KLNA R6KLNA		R8KLNA	R10KLNA			
Display	LCD, touch screen						
Interface:RS485/Wifi/4G/CAN/DRM		Yes					
Safety standard	UL1741, CSA C22.2 No. 107.1:16,UL1998						
EMC		FCC Part 15, Class B					
On-grid	IEEE1547, CPUC Rule21, SRD V2.0, UL1741 SA, UL1741 SB						
DC ARC-Fault	UL1699B						



MICRO GRID / C&I PRODUCTS

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> KEY STRENGTHS



> APPLICATION AREA



Off-grid mine Off-grid island Nomadic farm Villages without electricity

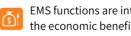
MPS series hybrid inverters adopt an integrated design, integrating PV controllers, energy storage converters, and on/off-grid automatic switching units, which greatly improves customer deployment efficiency and reduces installation costs. PV capacity can be flexibly configured, which greatly improves system availability and is suitable for the remote areas and islands where power is relatively weak.

Highly integrated, easy to deploy, shorten the installation and debugging time.

Internal integration of optical / storage / PCS equipment, more unified bus control, increased system stability.



Easy expansion, support PV flexible configuration.



EMS functions are integrated into hybrid inverter , improve the economic benefits of the system.

Support unattended, improve the operation and maintenance efficiency of the operator.

MPS Microgrid Series

AC(on-arid)

Ro(on-grid)							
Model	MPS0030	MPS0050	MPS0100	MPS0150	MPS0250	MPS0500	
Max output power(kVA)	33	55	110	165	275	550	
Rate output power(kW)	30	50	100	150	250	500	
Rated voltage(V)			4(00			
Voltage range(V)		320~460					
Rated current(A)	43	72	144	216	361	722	
Rated frequency (Hz)			50,	/60			
Frequency range (Hz)			45~55,	/55~65			
THDi			<3	8%			
Power factor		1lagging-1leading (Settable)					
AC connection		3W+N+PE					
Transformer ratio	100/400	200/400	270/400	270/400	270/400	315/400	

AC(off-grid)

Model	MPS0030	MPS0050	MPS0100	MPS0150	MPS0250	MPS0500	
Max output power(kVA)	33	55	110	165	275	550	
Rated power(kW)	30	50	100	150	250	500	
Rated voltage(V)	400						
Rated current(A)	43	72	144	216	361	722	
THDU			≤1% linear; or	≤5% nonlinear			
Rated frequency(Hz)		50/60					
Overload capacity			110% loi	ng-term			

PV input

Model	MPS0030	MPS0050	MPS0100	MPS0150	MPS0250	MPS0500			
Max.PV input voltage(V)		1,000							
Max.PV power(kW)	60/120	60/120	120/180/240	120/180/240	300/360	600/660/720			
MPPT voltage range(V)		250-850							
MPPT voltage range@full load (V)			450-	850	450-850				

Battery

Model	MPS0030	MPS0050	MPS0100	MPS0150	MPS0250	MPS0500
Battery voltage range(V)	250~850	320~850	420~850	420~850	420~850	500~850
Max. charging power(kW)	60/120	60/120	120/180/240	120/180/240	300/360	600/660/720

General data

Model	MPS0030	MPS0050	MPS0100	MPS0150	MPS0250	MPS0500	
Dimension W*D*H (mm)	800*800*1,900	800*800*1,900	1,200*800*2,050	1,200*800*2,050	(600*720*2,050)*1+ 1,200*800*2,050	(600*720*2,050)*2+ 1,600*1050*2,050	
Weight (kg)	620/650	720/750	1,120/1,150/1,180	1,250/1,280/1,310	1,980/2,010	3,265/3,295/3,325	
Operation temperature (°C)	-30 ~ 55						
Relative humidity	0 ~95% non-condensing						
Ingress protection	IP20						
Noise emission (dB)	<70						
Altitude	5,000m(>3,000 Derating)						
Cooling			Air Co	ooling			

Display and communication

Model	MPS0030	MPS0050	MPS0100	MPS0150	MPS0250	MPS0500		
Display	LCD touch-screen							
BMS communication	RS485, CAN							
EMS communication	RS485, TCP/IP							
Certificates	EN62109-1/-2, EN62477-1, EN61000-6-2, EN61000-6-4, South Africa NRS097-2-1:2017, Pakistan & India IEC61727, IEC62116,IEC 61683							

MPS PV and battery configuration principles:

> Boost mode configuration principle - open voltage at low temperature at the limit of PV installation * number of PV panels in series \leq the lowest voltage of the battery;

> Buck mode configuration principle - the maximum power operating voltage at the extreme high temperature of PV installation \geq the highest voltage of the battery; > The PV and battery configurations of MPS must comply with the above configuration principles.





Power Conversion System (Without isolation transformer)

> KEY STRENGTHS

MA

A

Combined thermal

power FM

💦 Friendly and Flexible

> Wide battery voltage range, support multiple battery access.
> Off-grid cold start function, support multi-machine parallel function.

📀 Safe and Reliable

> High performance DSP, optimized control circuit design, high reliable system.

8 Abundant Configuration

> Integrated design for easy transportation and integration.

> Support RS485, CAN communication mode, can accept BMS instruction in real time.

MEGA Large C&I Inverter Series

DC(batterv)

Model	MEGA0500	MEGA0630				
Voltage range(V)	600~900					
Max. current (A)	929	1,170				

AC(on-grid)

Model	MEGA0500	MEGA0630				
Max output power(kVA)	550	693				
Rate output power(kW)	500	630				
Rated voltage(V)	400					
Voltage range(V)	320~460					
Rated current(A)	722	909				
Max. output current (A)	794	1,000				
Rated frequency (Hz)	50/60					
Frequency range(Hz)	45~55/	/55~65				
THDi	<3%					
Power factor	1lagging-1leading (Settable)					
AC connection	3W+PE					

AC(off-grid)

Model	MEGA0500	MEGA0630			
Rated voltage(V)	400				
THDU	<1% Linear <5% Nonlinear				
Rated frequency(Hz)	50/60				
Overload capacity	110% ~long-term				

General data

Model	MEGA0500	MEGA0630				
Max.efficiency	98.7%					
Ingress protection	IP	21				
Noise emission (dB)	<70					
Operating temperature (°C)	-30~ 55					
Cooling	Forced air					
Relative humidity	0 ~95% non-	-condensing				
Altitude	5,000m(>3,0	00 Derating)				
Dimension W * D * H (mm)	1,200*80	00*2,050				
Weight(kg)	950					
Transformer	No					
Self-consumption(W)	<100					

Display and communication

Model	MEGA0500	MEGA0630			
Display	LCD touch-screen				
BMS communication	RS485, CAN				
EMS communication	RS485, TCP/IP				
Certificates	IEC/EN62109-1/-2, IEC/EN 62477-1, IEC	C/EN 61000-6-2, IEC/EN 61000-6-4,CGC			

MEGA series PCS is specially designed for grid-level applications. It has multi-machine parallel, grid black start, SVG function, supports IEC61850 communication protocol, and can meet various scenarios of power generation, transmission, distribution and consumption.

Grid-side

storage

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> APPLICATION AREA

Wind power

storage

PV charging

station



Power Conversion System (With isolation transformer)

> KEY STRENGTHS

🔼 Friendly and Flexible

> Reactive power, active power adjustable.> Off-grid cold start function, support multimachine

parallel function.

Safe and Reliable

> Built-in isolation transformer, high load adaptability.

> AC/DC dual backup for auxiliary power supply.

🛞 Abundant Configuration

Integrated on / off-grid automatic switching components, saving users' system costs.

🔯 Intelligent and Efficient

> Highest power density, maximum efficiency of 97.5%.

MEGA Large C&I Inverter Series

DC(battery)

Model	MEGA0030TS	MEGA0050TS	MEGA0100TS	MEGA0150TS	MEGA0250TS	MEGA0500TS
Voltage range (V)	250~850	320~850	420~850	420~850	420~850	500~850
Max. Current (A)	137	178	270	405	673	1,128

AC(on-grid)

Model	MEGA0030TS	MEGA0050TS	MEGA0100TS	MEGA0150TS	MEGA0250TS	MEGA0500TS		
Max output power(kVA)	33	55	110	165	275	550		
Rate output power(kW)	30	50	100	150	250	500		
Rated voltage(V)		400						
Voltage range(V)		320~460						
Rated current(A)	43	72	144	216	361	722		
Max. output current(A)	48	80	159	238	397	794		
Rated frequency (Hz)		50/60						
Frequency range (Hz)		45~55/55~65						
THDi		<3%						
Power factor		1lagging-1leading (Settable)						
AC connection		3W+N+PE						

AC(off-grid)

Model	MEGA0030TS	MEGA0050TS	MEGA0100TS	MEGA0150TS	MEGA0250TS	MEGA0500TS		
Rated voltage(V)		400						
THDU	<1% Linear <5% Nonlinear							
Rated frequency(Hz)		50/60						
Overload capacity		110% long-term						

General data

Model	MEGA0030TS	MEGA0050TS	MEGA0100TS	MEGA0150TS	MEGA0250TS	MEGA0500TS			
Max.efficiency	96.3%	96.5%	97.1%	97.1%	97.3%	97.5%			
Ingress protection		IP21							
Noise emission (dB)		<70							
Operating temperature (°C)		-30~ 55							
Cooling		Forced air							
Relative humidity			0 ~95% non-	condensing					
Altitude			5,000m(>3,0	00 Derating)					
Dimension W*D*H (mm)	800*800*1,900	800*800*1,900	800*800*2,050	800*800*2,050	1,200*800*2,050	1,600*1,050*2,050			
Weight(kg)	605	676	936	1,057	1,582	2,665			
Transformer ratio	100/400	200/400	270/400	270/400	270/400	315/400			
Self-consumption (W)		<100							
On/ Off grid switching			Autor	natic					

Display and communication

Model	MEGA0030TS	MEGA0050TS	MEGA0100TS	MEGA0150TS	MEGA0250TS	MEGA0500TS	
Display	LCD touch-screen						
BMS communication	RS485, CAN						
EMS communication	RS485, TCP/IP						
Certificates	IEC/EN62109-1/-2, IEC/EN 62477-1, IEC/EN 61000-6-2, IEC/EN 61000-6-4,CGC						

M

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> APPLICATION AREA



MEGA series energy storage converter is developed based on the application requirements of large C&I such as peak load shifting, battery backup, etc. It adopts full digital control technology, integrates the leading technological achievements of contemporary power electronics, and the highest efficiency of the product reaches 97.5%. Support multi-machine parallel function, can meet the power demand of 30kW~3MW.



Container Type Energy Storage Booster

> KEY STRENGTHS



A

1 2 2 2

Support multiple battery input to

> Support multiple battery input to improve battery cycle life.
> High switching frequency design, low current ripple and high power quality.

Friendly and Flexible

> System can be expanded to MW level by parallel.

Intelligent and Efficient

- > Built-in EMS function to improve energy efficiency management.
- > Latest IGBT module, high efficiency conversion.

Abundant Configuration

Integrated multiple boost systems.Integrated ventilation system.

MEGA Large C&I Inverter Series

> APPLICATION AREA





PV charging station

Wind power storage

DC(battery)

Model	ESSC1000A-MV35	ESSC1260A-MV35	ESSC2000A-MV35	ESSC2500A-MV35
Battery voltage range(V)	500-900			

AC(on-grid)

Model	ESSC1000A-MV35	ESSC1260A-MV35	ESSC2000A-MV35	ESSC2500A-MV35
Max. apparent power(kVA)	1,100	1,386	2,200	2,750
Rate output power(kW)	1,000	1,260	2,000	2,500
Rated voltage(kV)		3	5	
Voltage range(kV)		38.5±2×2.5% (6、10、22) optional		
Rated current(A)	16.5	20.8	33	41.2
Max. output current(A)	18.1	22.9	36.3	45.4
Rated frequency(Hz)	50/60			
Frequency range(Hz)		45-55/55-65		
THDi	<3%			
Power factor	1lagging-1leading (Settable)			
AC connection	3W+PE			

General data

Model	ESSC1000A-MV35	ESSC1260A-MV35	ESSC2000A-MV35	ESSC2500A-MV35
Max.efficiency		989	%	
Ingress protection		IP5	54	
Noise emission(dB)		<7!	5	
Operating temperature (°C)		-30~ 55		
Cooling	Temperature controlled forced air cooling			
Relative humidity	0 ~95% non-condensing			
Altitude	5,000m(>3,000 Derating)			
Dimension W*D*H (mm)	4,300*2,438*2,591	4,300*2,438*2,591	6,058*2,438*2,591	6,058*2,438*2,591
Weight(kg)	4,500	4,500	8,000	8,000
Transformer	No			
Self-consumption(W)	<20	<20	<40	<40
Booster transformer	Manual (default)/ Automatic (optional)			

Display and communication

Model	ESSC1000A-MV35	ESSC1260A-MV35	ESSC2000A-MV35	ESSC2500A-MV35
Display	LCD touch-screen			
BMS communication	RS485/CAN			
EMS communication	RS485, TCP/IP			

Megarevo's container type energy storage booster is the core component of peak and frequency regulation of large-scale energy storage power stations. It supports multiple sets of battery input and comprehensively improves battery cycle life. In addition, the system integrates various booster systems, and supports turnkey service.

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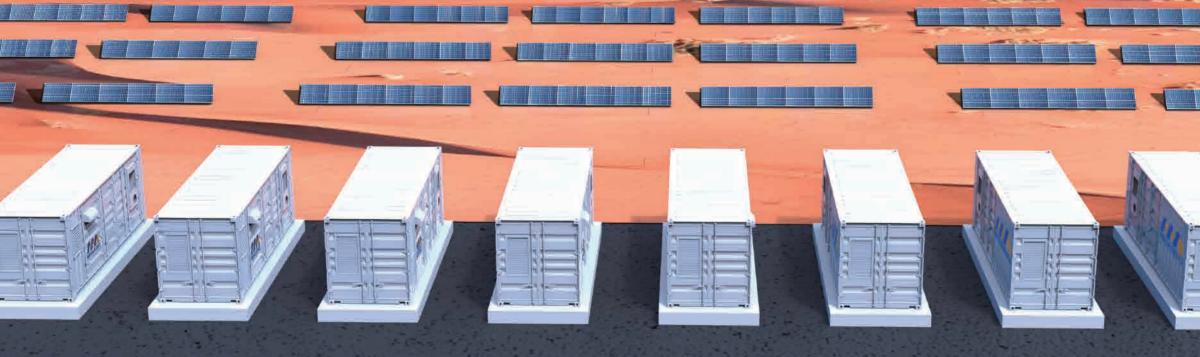




Combined thermal power FM

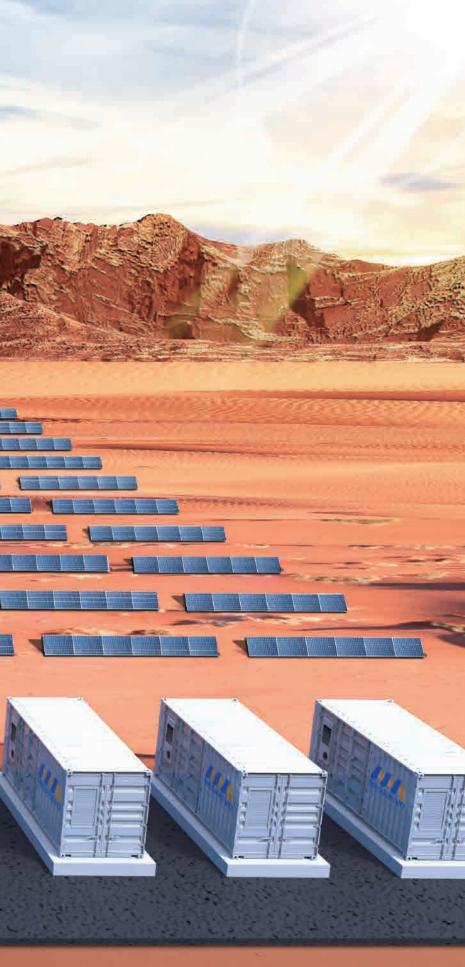
Grid-side storage





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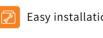




> APPLICATION AREA



> KEY STRENGTHS



Easy installation, simple connection.



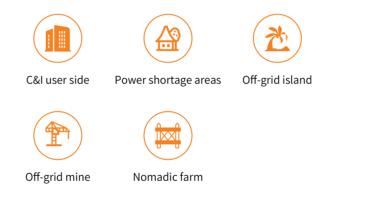




Technical specification:

Model	E072B048	E144B048
Total energy (kWh)	2.4/4.8/7.2	9.6/12/14.4
Nominal voltage (V)	4	8
Designed life (°C/°F)	≥10 year	s (25/77)
Storage temperature (°C)	-10	~+60
Max. working altitude (m)	<4,000	
Relative humidity	10%~90%	
Installation	GT-XL	
Ingress protection	IP	21
Weight (kg)	32	48
Dimension W*D*H (mm)	580*350*680	580*350*1,200
Certificates	C	E

> APPLICATION AREA



DC data

Technical specification		Technical specification	
Battery capacity (kWh)	100~200	Rated AC power(kW)	30~150
Number of battery racks	1~2	Max. AC power(kW)	30~150
BMS communication interface	RS485/CAN	Rated AC current(A)	43~216
DC voltage range(V)	420~850	Max. AC current(A)	48~238
General Data		DC current component	<0.5%
		THDi	<3% (Rated power)
Technical specification		Rated grid voltage(V)	400
Ingress protection	IP54	Allowable grid voltage range(V)	320~460
Fire extinguishing system	Support	Rated grid frequency(Hz)	50/60
Operating temperature (°C)	-30~ 55	Allowable grid frequency range(Hz)	45~55/55~65
Dimension W*D*H (mm)	Customization*1,300*2,400	Power factor	1lagging-1leading
Weight (kg)	Customization	Isolation method	With the isolation

Technical specification		
Ingress protection	IP54	
Fire extinguishing system	Support	
Operating temperature (°C)	-30~ 55	
Dimension W*D*H (mm)	Customization*1,300*2,400	
Weight (kg)	Customization	
BMS communication mode	CAN, RS485	
EMS communication mode	RS485, TCP/IP	
PCS cooling way	Temperature control intelligent air cooling	
Battery cooling way	Air conditioning cooling	
Altitude	4,500m (>3,000 Derating)	

Outdoor Cabinet Type Energy Storage System

> KEY STRENGTHS

Simple structure, small footprint, flexible layout, easy installation operation and maintenance.



Built-in fire control, temperature control, system warning function for multiple security.



Intelligent control system, can be connected to the local monitoring system for system control.

AC data

> APPLICATION AREA



PV charging station



Wind power storage



Container

Storage System

In order to reduce the production losses caused by power outages in summer, Megarevo has launched 20 foot high-energy-density ESS. The DC side consists of 8*138kWh lithium battery energy units, and the AC side uses MEGA series PCS, through the EMS operation strategy, interacts with the grid in a friendly way, and provides power support for customers during power limited period.

> KEY STRENGTHS

Friendly and Flexible

- > Standardized design, easy for capacity expansion, easy for maintenance.
- > Independent air flow design for high reliability.

🔀 Abundant Configuration

- > All kinds of power configuration for different projects.
- > Integrated monitoring system.

Safe and Reliable

- > Support battery management system and comprehensive thermal management.
- > Realize the fault classification protection algorithm.

Intelligent and Efficient

- > Support real-time online monitoring of system status.
- > Large capacity, long life, high discharge rate.

DC data

Model	
Battery capacity (MWh)	
Number of battery racks	
BMS communication interface	
DC voltage range (V)	

AC data

Model	
Rated AC power(kW)	
Max. AC power(kW)	
Rated AC current(A)	
Max. AC current(A)	
DC current component	
THDi	
Rated grid voltage(V)	
Allowable grid voltage range(V)	
Rated grid frequency(Hz)	
Allowable grid frequency range	
Power factor	
Isolation method	

General data

Model	ESSC0500A-1106	
Ingress protection	IP54	
Fire extinguishing system	support	
Running time (full power)	2h	
Operating temperature (°C)	-30~ 55	
Dimension W*D*H (mm)	12,192*2,438*2,896	
Weight (T)	3.5	
BMS communication	RS485, CAN	
EMS communication	RS485, TCP/IP	
PCS cooling way	Temperature control intelligent air cooling	
Battery cooling way	Air conditioning cooling	
Altitude	4,500m(>3,000 Derating)	
Relative humidity	0 ~95% non-condensing	







Combined thermal power FM

ESSC0500A-1106	
1,106	
8	
RS485/CAN	
600~850	

ESSC0500A-1106	
500	
550	
722	
800	
<0.5%	
<3% (Rated power)	
400	
320~460	
50/60	
45~55/55~65	
1lagging-1leading	
No isolation	



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Hybrid inverter			power groverEine
	-	_	

EMS

(Energy Management System)

EMS is developed by Megarevo for a variety of application scenarios of energy storage systems. Through independent learning and data analysis, EMS can provide users with optimal charging and discharging operation strategies to help customers to improve the efficiency of clean energy and save energy cost. In addition, the EMS supports system monitoring and real-time fault alarms. It can easily master the system charging state, battery voltage, temperature, auxiliary system status and other detailed information anytime and anywhere.



> KEY STRENGTHS

Perfect Functions

- > Support multiple communication protocols.
- > Support 5-year historical data review.

Intelligent Security

- > More accurate and comprehensive monitoring.
- > Real-time control of PCS and battery operation data.

Easy & Convenient

- > User-friendly operation interface, simple and easy to operate.
- > Support mobile APP/ wechat mini program for remote management.

> APPLICATION AREA



Microgrid system energy control



PV charging station energy control





modulation energy control





BR3000

(Communication Management Machine)

BR3000 communication management machine adopts high-performance 4-core A9 processor, main frequency up to 1.4GHz, supports 2 10/100 adaptive industrial Ethernet interfaces, 4 serial communication interfaces (1 RS232/4 RS485), can be customized WIFI/CAN, large capacity SD memory card interface, built-in RTC, buzzer, etc. It can provide users with powerful computing capacity and flexible communication modes, small size and easy installation. Embedded with 512MB DDR3 SDRAM and 8G Flash memory, abundant communication ports are ideal for PV power station communication, power environment monitoring in computer rooms, ESS energy management and other applications.

> KEY STRENGTHS

> Supports 4 RS485,1 RS232,2 Ethernet interfaces, standard 4G, support WIFI/CAN customization.

> Linux operating system, perfect debugging software, convenient and flexible device access.

> Embedded WEB built-in database, data cloud platform, mobile phone Wechat mini program access.

> Equipped with large capacity Flash and memory, supporting device data browsing and historical data report through embedded WEB.

Data Acquisition Stick

Data acquisition stick supports GPRS, WiFi, 4G, Ethernet and other communication modes. In addition, the bucket rod logger supports serial communications such as RS485/RS232/RS422/TTL. The multi-cover design makes it suitable for most inverters. By collecting the operating status of the inverter, rod loggers can effectively monitor the PV system over long periods of time, improve efficiency and significantly reduce administrative costs. With its extended features such as GNSS, shutdown alerts and bluetooth, stick logger enable quick configuration on site and simple plant operations.

FOUR GLOBAL SERVICE OUTLETS



- After-sales technical consultation and training services.
- On-site power-on maintenance, remote upgrade service.
- Answer difficult questions.
- Replacement of spare parts.
- Value-added services outside insurance.

Megarevo service capacity covers the four regional markets of Northern Europe, North America, South Africa and Southeast Asia. In addition, the company also focuses on supporting local dealers to provide customers with comprehensive technical support and timely response services.







Timely response

3 Days

Reservation service

5 Days

Troubleshooting





16kW/10kWh+5kWp PV

2022.06

On-grid,self-consumption

Residential Energy Storage Project in Bangkok,Thailand



USER CASES

Microgrid Cases

In areas with no electricity and weak electricity, Megarevo's micro-grid solution combines solar energy technology to provide sufficient energy for local residents and provide power

for their life and production.

So far, Megarevo has solved power consumption problems for more than 1,000 economically backward regions.



State Grid Microgrid Project

PV-ESS-EV Charging Station Project in Norway



PV-ESS-EV Project in Henan, China



Microgrid Project in Yulin Coal Mine Area, China



Microgrid Project in Torugart Port, China



Microgrid Project in Pakistan













Microgrid Project in Dominican



Microgrid Project in XinJiang, China



Microgrid Project in Sierra Leone, Africa



Microgrid Project Nanjing, China

C&I and Grid Side Cases















