



Residential ESS

*Smart Residential Energy Storage Solutions
Manage Energy Intelligently and Effectively*

RAJA NEW ENERGY CO., LTD



ABOUT RAJA

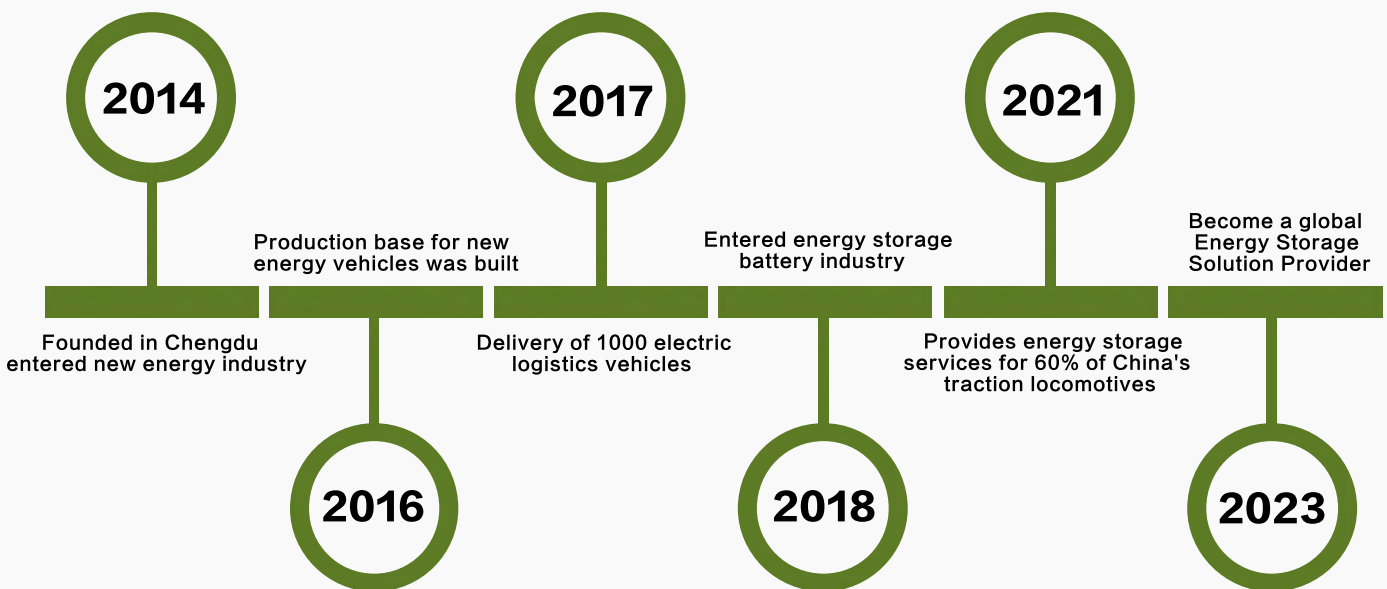
RAJA New Energy Technology Co., Ltd, founded in 2014 in Chengdu, is a full-backed company of RAJA New Energy Vehicles Technology Co., Ltd.

As the first and leading manufacturer that obtains the Production Qualification of EVs in China, RAJA owns its self-developed BMS, MCU and VCU system.

With the passion for the innovation and application of battery technology, RAJA's Energy Storage Batteries are produced according to the highest standard in EV power batteries.

As of today, over 60% of China's Tunnel Tractors have been installed with RAJA's Large Energy Storage Batteries, RAJA has 260 professional qualifications and over 60 industrial awards.

RAJA's business covers a full range of Electric Truck, EV Batteries, RV batteries, Residential Energy Storage Batteries, Telecom Base Station backup batteries, Energy Solutions. RAJA's products and solutions have been increasingly recognized worldwide.



Standard and tailor-made solutions to meet your various demands for energy storage: Resident/Household Storage System, Commercial & Industrial Storage System, Lithium Battery full-life cycle solution, Logistics EV Battery Swapping Solution.

Over 10 years of expertise and professionalism in R&D, design, manufacturing Electric Vehicles, EV battery and Energy Storage System. RAJA dedicates to providing tailor-made, cost-effective and reliable energy solutions to global clients, power your life with a smart, reliable, and safe home battery. Together, we are powering world's future—and that future is looking brighter and greener than ever before!

Energy Solutions



Product Lines



Residential ESS

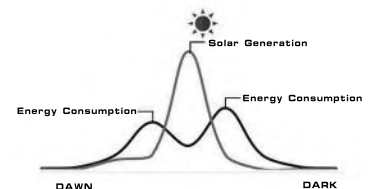
Green energy is the trend. As green, effective and safe energy supply system, Residential ESS dissolves the electricity demand, and also functions feeding surplus electricity to grid, working as Emergency Power, making use of the peak-to-valley price difference to reduce energy costs. Integrated lithium-ion battery energy storage system with home energy management system, Residential ESS is scalable on demand and available in a variety of combinations.



Scheme advantage

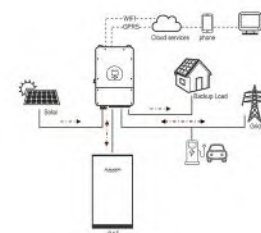
Efficient & Profitable

The peak fills the valley, saving electricity.
98% charge and discharge efficiency, high utilization rate.



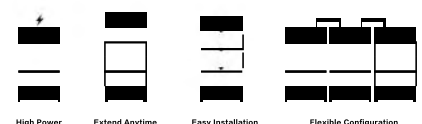
Safe & Reliable

Seamless switching between on-grid and off-grid without power failure
High-quality lithium battery cell, fire-proof, anti-explosive.
Multi-level protection, fast fault isolation



Convenient & Flexible

Modular design, plug and play, convenient installation
High protection level, wide installation environment
Comprehensive cloud monitoring, rapid fault alarming



All-in-one Series



FA3000A

Inverter Type	Off grid
AC Rated Power	3kW
AC Peak Power	6kW
Vac Input Voltage	230 ± 5%
Vac Output Voltage	230 ± 5%
PV Voltage Range	120V-450V
PV Maximum Input Current	18A
Maximum Charging Current	100A
Battery Nominal Voltage	25.6V
Battery Rated Capacity	160Ah(0.5C/25°C)
Battery Rated Energy	4.096kWh(0.5C/25°C)
Operation Interaction	Display Screen/App
Product Dimension	520 × 210 × 750mm
Weight	60kg
Protection Level	IP40
Working Temperature	Charge: 0-45°C Discharge: -20-60°C
Storage Temperature	10-35°C
Standards & Certification	UN38.3/MSDS/FCC

FA5000A

Inverter Type	Off grid
AC Rated Power	5kW
AC Peak Power	10kW
Vac Input Voltage	230 ± 5%
Vac Output Voltage	230 ± 5%
PV Voltage Range	120V-450V
PV Maximum Input Current	18A
Maximum Charging Current	100A
Battery Nominal Voltage	51.2V
Battery Rated Capacity	100Ah(0.5C/25°C)
Battery Rated Energy	5.12kWh (0.5C/25°C)
Operation Interaction	Display Screen/App
Product Dimension	500 × 240 × 780mm
Weight	70kg
Protection Level	IP40
Working Temperature	Charge: 0-45°C Discharge: -20-60°C
Storage Temperature	10-35°C
Standards & Certification	UN38.3/MSDS/FCC

High Voltage Stackable Series



High Voltage Stackable Battery Modular					FD3000A
NOS of Modules	2	3	4	5	6
Battery Energy	6kWh	9kWh	12kWh	15kWh	18kWh
Battery Capacity	30Ah				
Rated Voltage	204V	307V	409V	512V	614V
Working Voltage	160~233	240~350	320~467	400~584	480~700
NOS of Cells	2P64S	2P96S	2P128S	2P160S	2P192S
Battery type	LFP				
Cycle Life	>6000				
Rated Charge Current	15A				
Rated Discharge Current	30A				
Display	LCD				
Communication	CAN				
Working Temperature	Charge: 0~45°C Discharge: -20~60°C				
Storage Temperature	10~35°C				
Relative Humidity	0~95%				
Highest Altitude	2000				
Dimension	520*320*510mm	520*320*690mm	520*320*870mm	520*320*1050mm	520*320*1230mm
Weight	70kg	100kg	130kg	160kg	190kg
Protection Level	IP65				
Mounting	Stacking on the ground				
Standards & Certification	UN38.3/MSDS/FCC				

High Voltage Stackable Series



High Voltage Stackable Battery Modular					FD5000C
NOS of Modules	2	3	4	5	6
Battery Energy	10kWh	15kWh	20kWh	25kWh	30kWh
Battery Capacity	100Ah				
Rated Voltage	102.4V	153.6V	204.8V	256V	307.2V
Working Voltage	80~116	120~175	160~233	200~292	240~350
NOS of Cells	1P32S	1P48S	1P64S	1P80S	1P96S
Battery type	LFP				
Cycle Life	>6000				
Rated Charge Current	50A				
Rated Discharge Current	100A				
Display	LCD				
Communication	CAN				
Working Temperature	Charge: 0~45°C Discharge: -20~60°C				
Storage Temperature	10~35°C				
Relative Humidity	0~95%				
Highest Altitude	2000				
Dimension	650*430*640mm	650*430*800mm	650*430*960mm	650*430*1120mm	650*430*1280mm
Weight	120kg	170kg	220kg	270kg	320kg
Protection Level	IP65				
Mounting	Stacking on the ground				
Standards & Certification	UN38.3/MSDS/FCC				

Low Voltage Stackable Module



Low Voltage Stackable Battery Modular			FD5000A
NOS of Modules	1	2	3
Battery Energy	5kWh	10kWh	15kWh
Battery Capacity	100Ah	200Ah	300Ah
Rated Voltage	51.2V		
Working Voltage	40~58V		
NOS of Cells	1P16S	2P16S	3P16S
Battery type	LFP		
Cycle Life	> 6000		
Rated Charge Current	50A	100A	100A
Rated Discharge Current	100A	200A	200A
Display	LCD		
Communication	CAN/RS485		
Working Temperature	Charge: 0~45°C Discharge: -20~60°C		
Storage Temperature	10~35°C		
Relative Humidity	0~95%		
Highest Altitude	2000		
Dimension	590*400*300mm	590*400*490mm	590*400*680mm
Weight	60kg	110kg	160kg
Protection Level	IP65		
Mounting	Stacking on the ground		
Standards & Certification	UN38.3/MSDS/FCC		

Wall Mounting Module



Low Voltage Separated Battery Modular		FD5000B	
	1	2	3
Battery Energy	5kWh	10kWh	15kWh
Battery Capacity	100Ah	200Ah	300Ah
Rated Voltage	51.2V		
Working Voltage	40~58V		
NOS of Cells	1P16S	2P16S	3P16S
Battery type	LFP		
Cycle Life	>6000		
Rated Charge Current	50A	100A	100A
Rated Discharge Current	100A	200A	200A
Display	LCD		
Communication	CAN/RS485		
Working Temperature	Charge: 0~45°C Discharge: -20~60°C		
Storage Temperature	10~35°C		
Relative Humidity	0~95%		
Highest Altitude	2000		
Dimension	485*200*520mm	(485*200*520)*2mm	(485*200*520)*3mm
Weight	50kg	100kg	150kg
Protection Level	IP65		
Mounting	Wall Mounting		
Standards & Certification	UN38.3/MSDS/FCC		

Residential ESS Inverter Series



Single-Phase Hybrid Inverter

Rated Output Power	5kW
Maximum Dc Voltage	500V
Maximum Power	7.5kW
Maximum Output Current	24A
Grid Voltage Range	120/240V(split-phase) 208V(2/3-phase),230V(single-phase)
Battery Voltage Range	40~58V
Maximum Charging Voltage	58V
Maximum Charging / Discharging Current	120/120A
Communication Interface	CAN/RS485
Emergency Power Output	5EPS
Rated Output Voltage	230V(split-phase)
Rated Output Current	24A
Rated Output Frequency	50/60Hz
Automatic Switching Time	<20ms
Battery Charge and Discharge Efficiency	95.0%
Protection Level	IP65
Ambient Temperature Range	-25℃ ~ 60℃
Dimension	430*220*710mm
Weight	41kg

Standards & Certification UL1741SA all options, UL1699B
CSA 22.2, FCC(EMC),IEEE 1547
IEEE 2030.5,Hawaii Rules 14H
Rule 21 Phase I,II,III ,NRS

Three-Phase Hybrid Inverter

Rated Output Power	8kW
Maximum Dc Voltage	500V
Maximum Power	10.4kVA
Maximum Output Current	12A
Grid Voltage Range	240/211~264V
Battery Voltage Range	85~400V
Maximum Charging Voltage	400V
Maximum Charging / Discharging Current	80/80A
Communication Interface	CAN/RS485
Emergency Power Output	8EPS
Rated Output Voltage	220-240 /110-120V
Rated Output Current	36A
Rated Output Frequency	50/60Hz
Automatic Switching Time	<20ms
Battery Charge and Discharge Efficiency	96.6%
Protection Level	IP65
Ambient Temperature Range	-25℃ ~ 60℃
Dimension	530*200*660mm
Weight	32kg

Standards & Certification UL1741SA all options, UL1699B
CSA 22.2, FCC(EMC),IEEE 1547
IEEE 2030.5,Hawaii Rules 14H
Rule 21 Phase I,II,III

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Power Your Green Life