
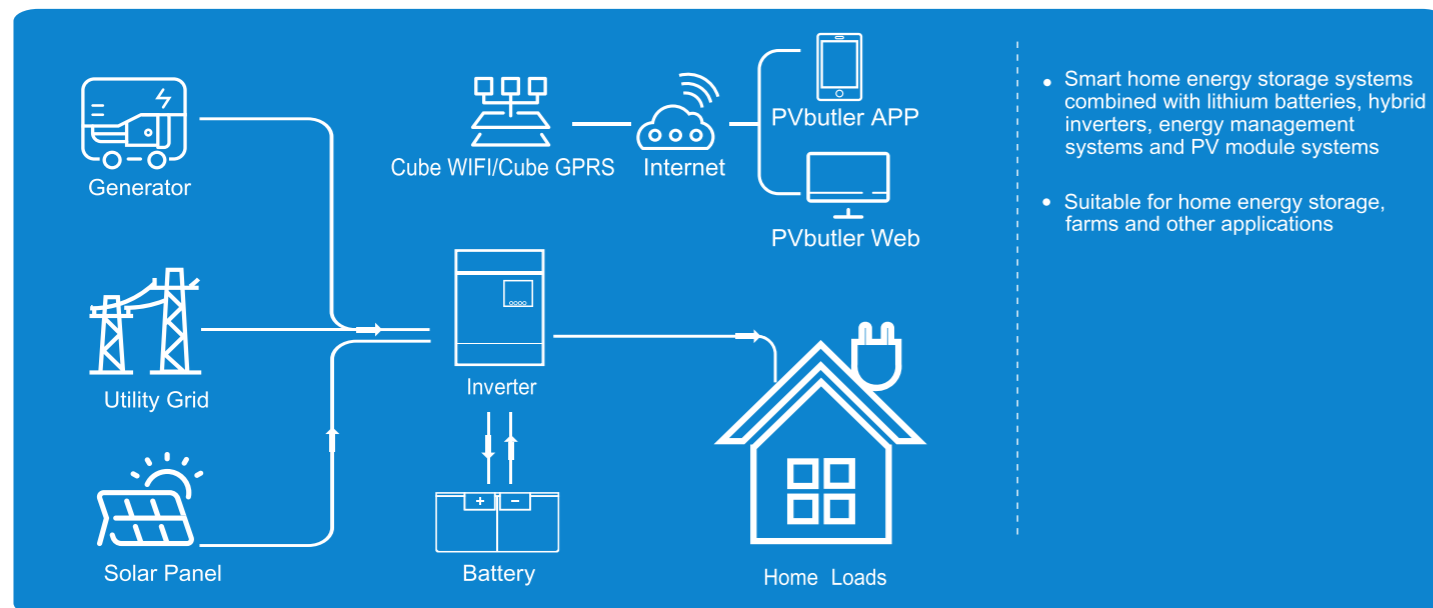


Residential Energy Storage Systems Offer You the Best Solution to the Following Problems

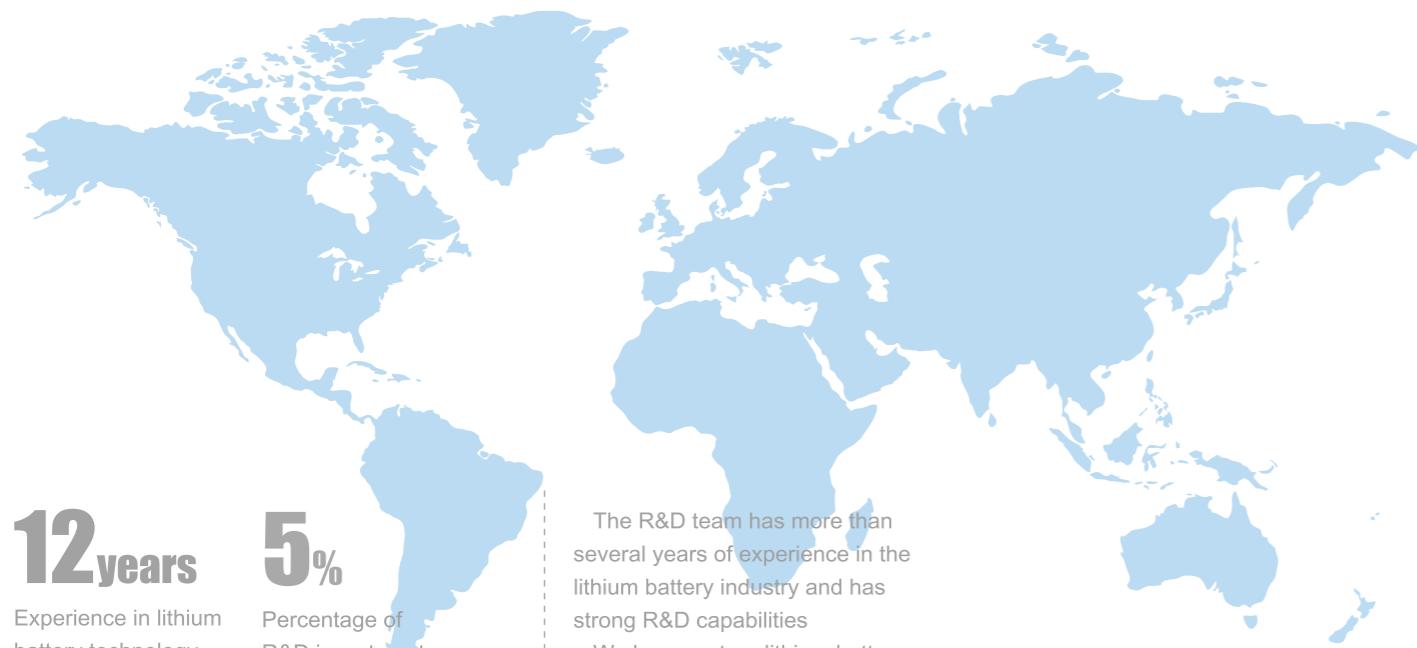
-  **Energy Shortage**
Temporal or local variations in grid supply and demand
-  **Peak Shaving/Off-grid**
High cost of grid coverage, unstable voltage and interruptions in power generation
-  **New Energy Promotion**
Intermittent generation can lead to unstable power
-  **Energy Saving**
Energy-saving projects began to be implemented and promoted in large numbers

Residential Energy Storage System



Smart Energy For a Better Life

Over 10 years of experience in lithium battery technology and product development



12years

Experience in lithium battery technology

5%

Percentage of R&D investment

100+

R&D personnel

40GW

Global installed capacity

The R&D team has more than several years of experience in the lithium battery industry and has strong R&D capabilities

We have mature lithium battery solutions such as LiFePO4 battery charging technology, low temperature charging and discharging technology, and low temperature high rate discharging technology

CONTACT US

SHENZHEN CAR KU TECHNOLOGY CO., LTD

 E-mail:
info@car ku.com

 Web:
www.car-ku.com

CAR KU®

Smart Energy Make Life Better

Professional supplier of smart lithium battery solutions
Committed to becoming the world's largest smart energy solutions provider

Vin-6kw us



Energy Storage System

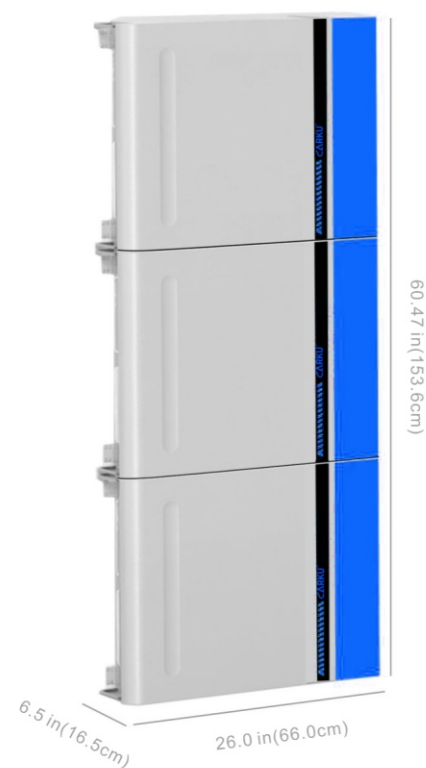
Three Battery Placement Modes

Vin-6kw us + V-LBM 51.2v100ah



- Integrated solar inverter, 6kw hybrid power for off-Grid, even feed-back to the Grid
- Programmable supply priority for PV, battery or Grid
- User-adjustable battery charging current
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Multiple communication for USB, RS232, Modbus, SNMP, GPRS and Wi-Fi
- Monitoring software for real-time status display and control
- Enhance AC/Solar charger to 120A
- Scalable LiFePO4 battery expansion
- LiFePO4 battery life cycle: 6000 cycles at 25 °C (77°F)
- High surge discharging current up to 3C
- IP 65

Energy Storage System Specification



BATTERY MODULE	V-LBM 51.2v100ah
CAPACITY	5120Wh
PARAMETERS	
Nominal Voltage	51.2VDC
Full Charge Voltage (FC)	56V
Full Discharge Voltage (FD)	42V
Typical Capacity	100Ah
Max Continuous Discharging Current	150A
Max Discharging Current	192A at 1min
Protection	BMS, breaker
Charge Voltage	56V
Charge Current	20A (0.2C)
Maximum Charge Current	50A (0.5C)
Standard Charge Method	0.2C CC (Constant current) charge to FC, CV (Constant voltage FC) charge till charge current decline to <0.05C
Inner Resistance	<20m ohm
Dimension, D X W X H	20.16 x 6.5 x 26.0 in (51.2 x 16.5 x 66.0 cm)
Net Weight (kgs)	45±2
STANDARD	
Compliance Safety	IEC 62619, EN 61000-6-3, EN 61000-6-1, UKCA, UN38.3

Energy Storage System Specification

INVERTER MODEL	Vin-6kw us
Phase	120V/240V Split phase, 120V/208V Split phase
Maximum PV Input Power	7500W
Rated Output Power	6000VA/6000W
Maximum Charging Power	6000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Maximum DC Voltage	600 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 160 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Number of MPP Trackers / Maximum Input Current	2 / 15A
GRID OUTPUT (AC)	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)
Output Voltage Range	97-132VAC(P-N) / 194VAC-264VAC(P-P)
Nominal Output Current	27.3 A per phase
Power Factor	0.9 lag to 0.9 lead
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	85VAC(P-N), 170VAC(P-P) / 90VAC(P-N), 180VAC(P-P)
Acceptable Input Voltage Range	85 - 140 VAC (P-N)/ 170 - 280 VAC (P-P)
Frequency Range	50 Hz/60 Hz (Auto sensing)
Maximum AC Input Current	30 A per phase
PV INPUT (DC)	
Maximum DC Voltage	600 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Number of MPP Trackers / Maximum Input Current	2 / 15A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	91%
HYBRID OPERATION	
PV INPUT (DC)	
Maximum DC Voltage	600 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 160 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Number of MPP Trackers / Maximum Input Current	2 / 15A
GRID OUTPUT (AC)	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)
Output Voltage Range	97-132VAC(P-N) / 194VAC-264VAC(P-P)
Nominal Output Current	27.3 A per phase
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	85VAC(P-N), 170VAC(P-P) / 90VAC(P-N), 180VAC(P-P)
Acceptable Input Voltage Range	85 - 140 VAC (P-N)/ 170 - 280 VAC (P-P)
Maximum AC Input Current	30 A per phase
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)
Efficiency (DC to AC)	91%
BATTERY & CHARGER	
Nominal DC Voltage	42-62 VDC
Maximum Solar Charging Current	120 A
Maximum AC Charging Current	120 A
Maximum Charging Current	120 A
GENERAL	
PHYSICAL	
Dimension, D x W x H	8.48 x 20.28 x 27.56 in (21.55 x 51.5 x 70.0 cm)
Net Weight (kgs)	41±2
INTERACE	
Parallel Function	Yes, 6 units
Communication Port	RS232, RS485, WI-FI, USB
ENVIRONMENT	
Protection Degree	IP 65
Operating Temperature	-25°C to 60°C (>45°C derating) 77°F to 140°F (>113°F derating)

Product specifications are subject to change without further notice