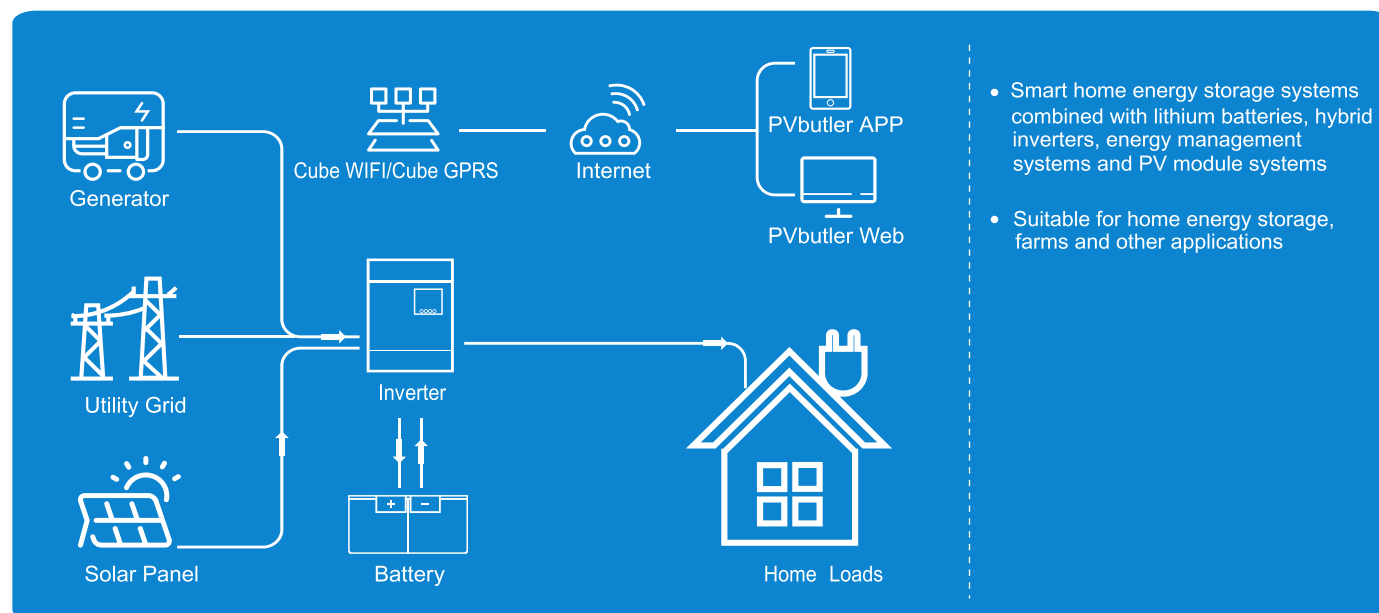


## Residential Energy Storage Systems Offer You the Best Solution to the Following Problems

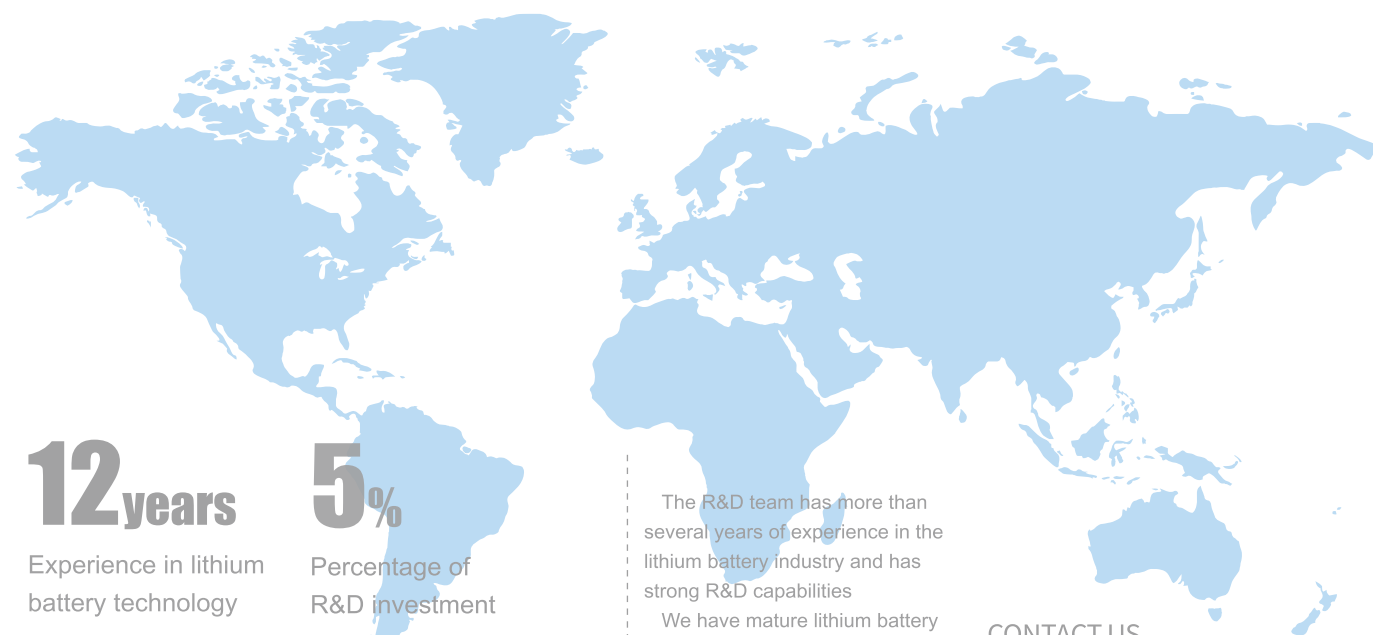
-  **Energy Shortage**  
Temporal or local variations in grid supply and demand
-  **Peak Shaving/Off-grid**  
High cost of grid coverage, unstable voltage and interruptions in power generation
-  **New Energy Promotion**  
Intermittent generation can lead to unstable power
-  **Energy Saving**  
Energy-saving 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@carku.com

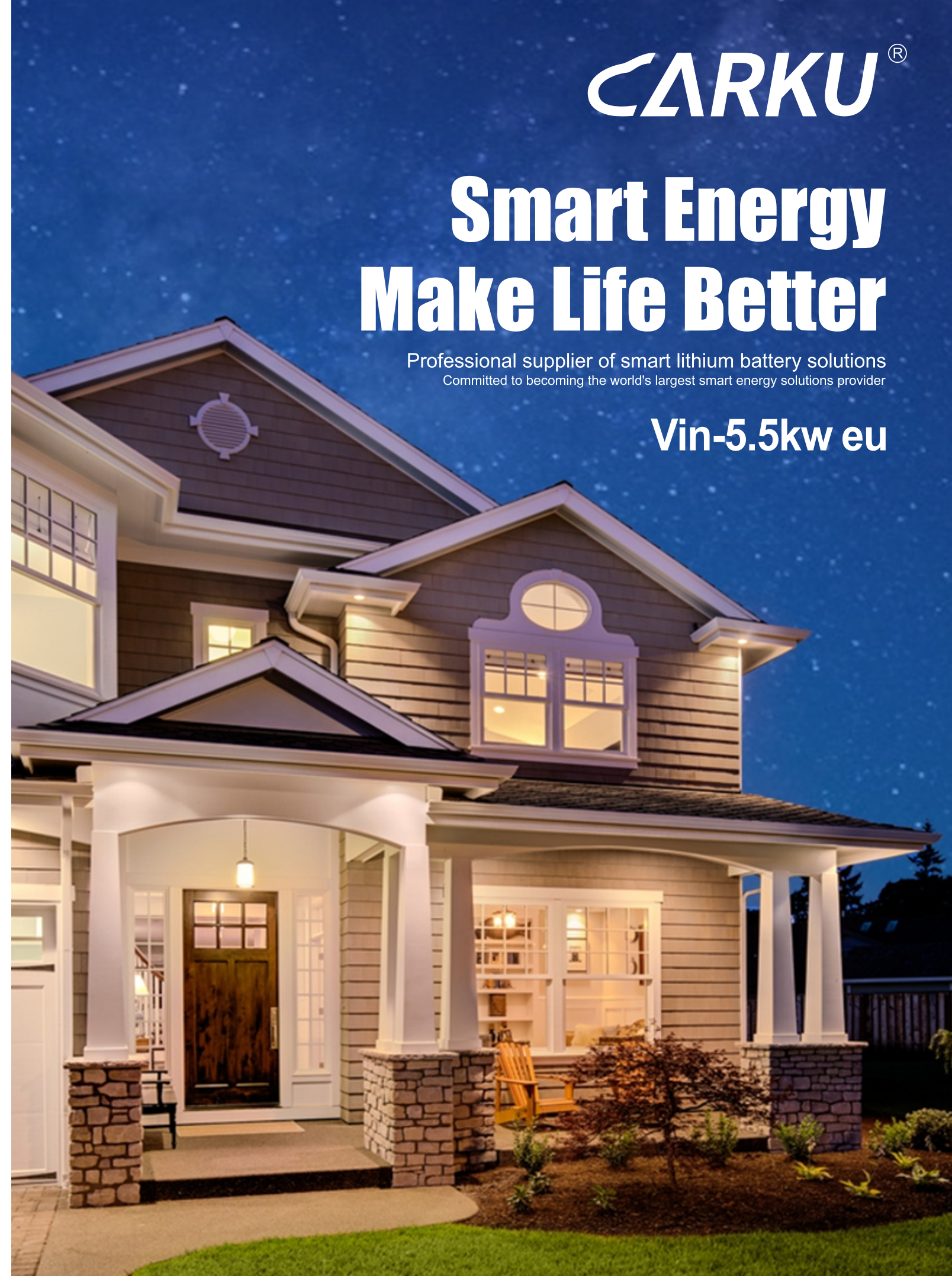
Web:  
www.car-ku.com

**CARKU**<sup>®</sup>

# Smart Energy Make Life Better

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

**Vin-5.5kw eu**

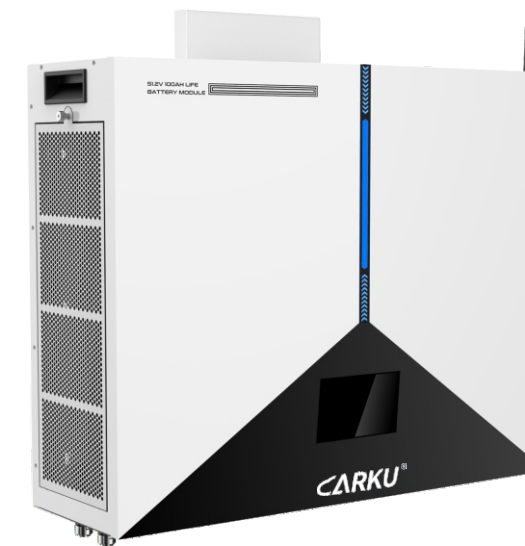




# Energy Storage System

Three Battery Placement Modes  
Vin-5.5kw eu + V-LBM 51.2v100ah

- Integrated solar inverter, 5.5kw 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 100A
- Scalable LiFePO4 battery expansion
- LiFePO4 battery life cycle: 6000 cycles at 25 °C (77°F)
- High surge discharging current up to 3C
- IP 20



## Energy Storage System Specification

## Energy Storage System Specification

INVERTER MODEL	Vin-5.5kw eu
Maximum PV Input Power	6500W
Rated Output Power	5500W
Maximum Charging Power	2880W
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 13 A
GRID OUTPUT	
Nominal Output Voltage	208/220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC*
Max. Output Current	23.9A*
Maximum Conversion Efficiency (DC/AC)	96%
European Efficiency @ Vnominal	95%
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	170 -280 VAC
Maximum AC Input Current	40 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	208/220/230/240 VAC
Efficiency (DC to AC)	93%
BATTERY CHARGER	
Nominal DC Voltage	51.2 VDC
Maximum Charging Current	100 A
PHYSICAL	
Dimension, D x W x H	62.1 x 21.0 x 50.0 cm (24.45 x 8.27 x 19.69 in)
Net Weight (kgs)	25 ± 2
STANDARD	
Compliance Safety	IEC/EN 62109-1/-2, IEC 62040-1, EN 61000-6-4, EN IEC 61000-6-2, EN IEC 61000-3-11, EN 61000-3-12, IEC 61727, IEC 62116, G99, NRS 097-2-1, EN 50549-1

BATTERY MODULE	V-LBM 51.2v100ah
<b>CAPACITY</b>	5120Wh
<b>PARAMETERS</b>	
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	51.2 x 16.5 x 66.0 cm (20.16 x 6.5 x 26.0 in)
Net Weight (kgs)	45 ± 2
<b>STANDARD</b>	
Compliance Safety	IEC 62619, EN 61000-6-3, EN 61000-6-1, UKCA, UN38.3

These figures may vary depending on different AC voltage and contry regulation  
Product specifications are subject to change without further notice