

POWERING A BRIGHTER FUTURE



Commercial & Industrial

Energy Storage and
Micro Grid Solutions





MAXIMISING ENERGY. MINIMISING RISK.

Vess delivers complete energy solutions for homes and businesses.

Our batteries are built to maximise independence by storing excess power from your panels, ensuring reliable energy whenever you need it.

We believe in straightforward, effective solutions that deliver real value.

Our mission is to make solar energy simple, accessible and sustainable, helping to cut costs while reducing environmental impact.

By combining solar and storage, we provide an all-in-one energy solution. Our systems are versatile and scalable to suit every need.

Our patent-pending charge management technology transforms a single-phase grid connection into a three-phase microgrid, unlocking greater efficiency and performance.



60kWh Air-Cooling Battery

VS-60A



HIGH PERFORMANCE

>8,000 Life Cycles

Black start, off-grid ops



SAFE AND RELIABLE

Full Power temperature control

IP55 design, minimising external environmental impact



FLEXIBLE APPLICATION

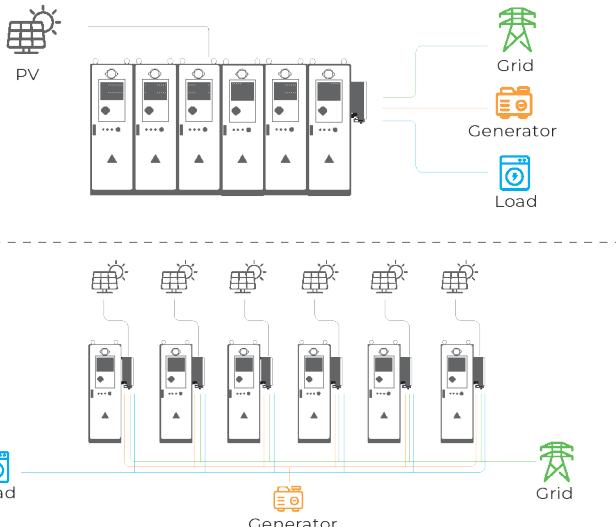
Ideal for frequent, intensive energy cycling apps



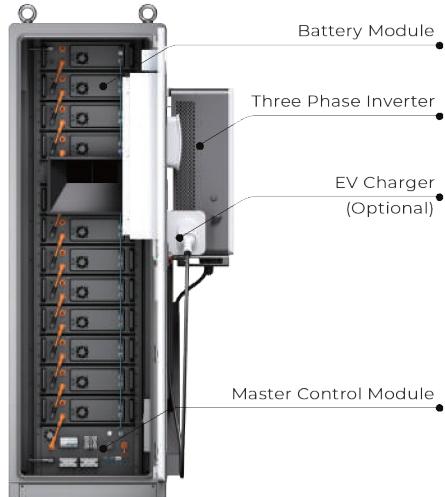
USER FRIENDLY SET UP

Cloud platform / APP remote monitoring

System Layout



System Demonstration



114~215kWh Air-Cooling Battery

K-VS215

-ES-1



HIGH PERFORMANCE

>8,000 Life Cycles

Lifespan surpassing 15 years



SAFE AND RELIABLE

System-level fire protection, active early warning system

IP55 design, available for indoor and outdoor



FLEXIBLE APPLICATION

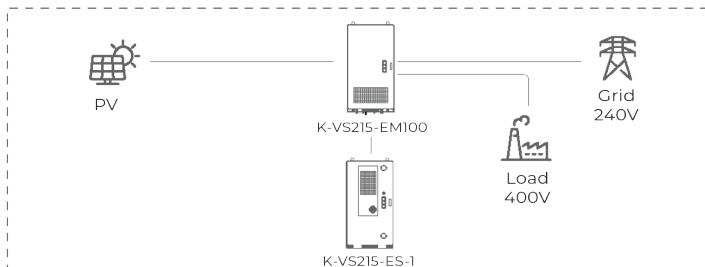
Efficient BMS Technology



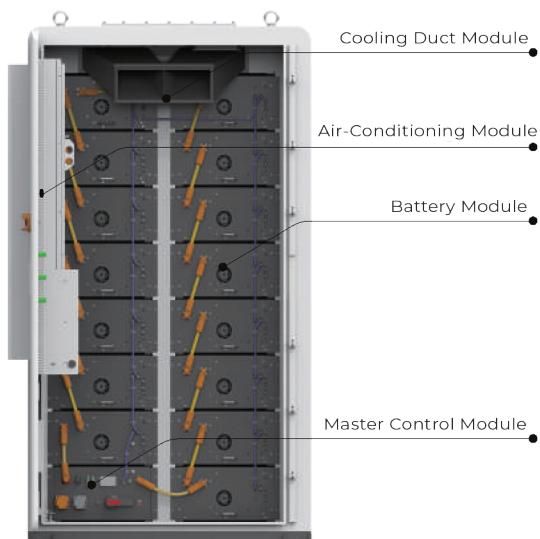
USER FRIENDLY SET UP

Module Design for ease of expansion

System Layout



System Demonstration



Intelligent EMS Cabinet

VS215- EM100



HIGH PERFORMANCE

Combines PCS, DCDC, and STS modules



SAFE AND RELIABLE

Enhances system stability and efficiency

Reliable energy storage, conversion and smart scheduling



FLEXIBLE APPLICATION

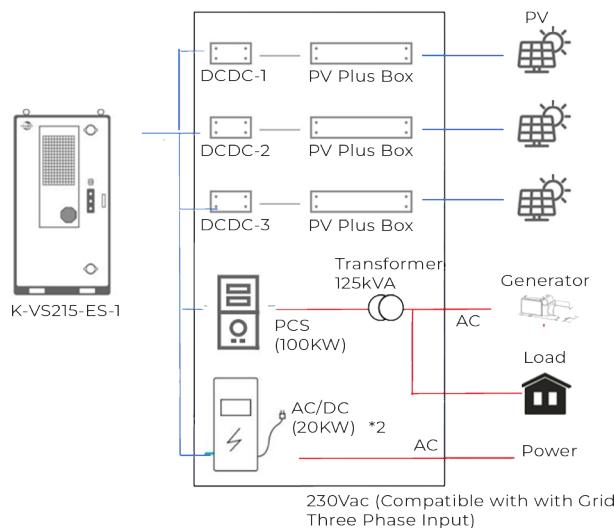
Efficient BMS Technology



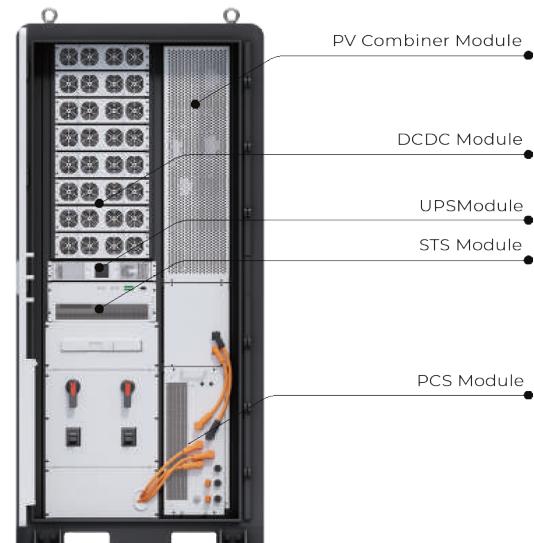
USER FRIENDLY SET UP

Real-time monitoring and optimisation of energy flow

System Layout



System Demonstration



BESPOKE TO CUSTOMER REQUIREMENTS

233kWh Liquid-Cooling Battery

VS-233A



HIGH PERFORMANCE

High-efficiency liquid cooling



SAFE AND RELIABLE

Battery monitoring, fire prevention, a top venting design

AI Management



FLEXIBLE APPLICATION

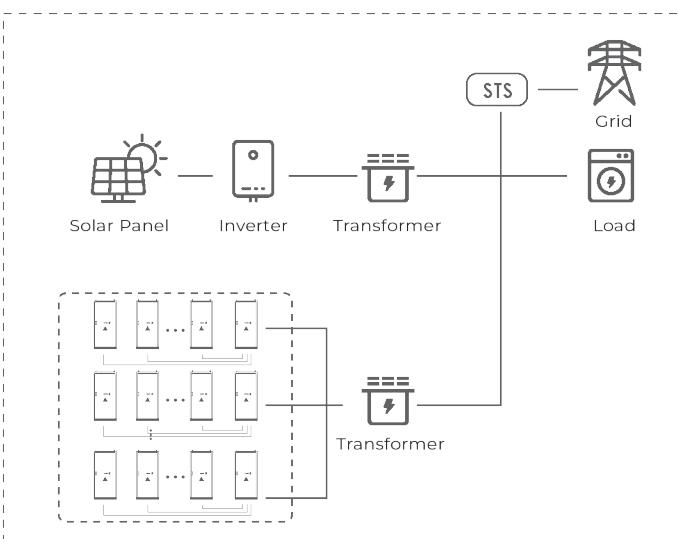
Efficient BMS Technology



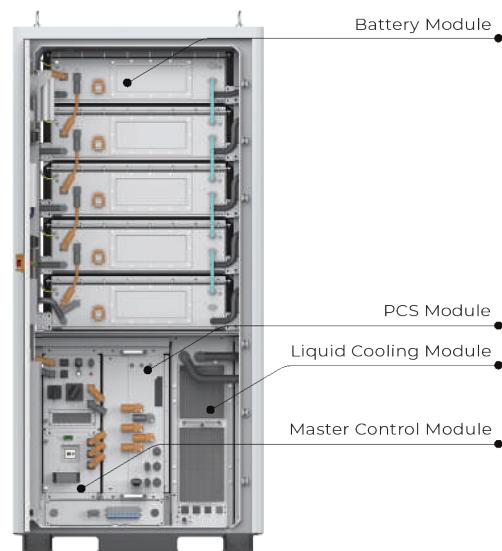
USER FRIENDLY SET UP

Modular design for ease of expansion

System Layout



System Demonstration



Liquid-cooling Distributed Container System

V-Block

1672 kWh
3344 kWh
5016 kWh



HIGH PERFORMANCE

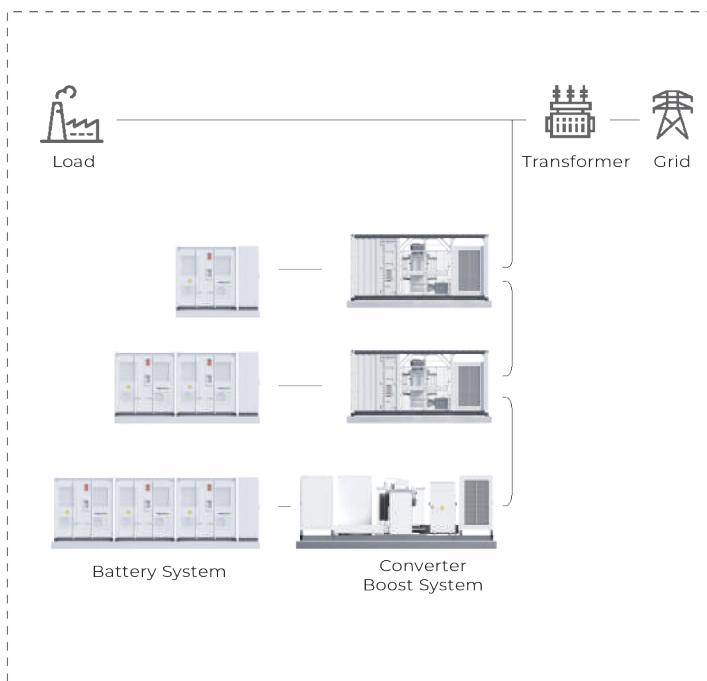
New Generation of Distribution



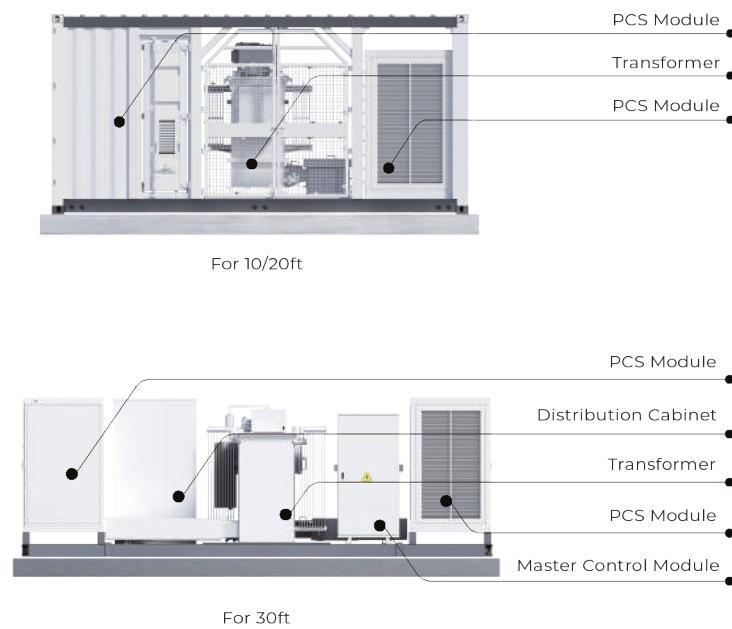
SAFE AND RELIABLE

IP54 design, minimise external environmental impact

System Layout



System Demonstration



Product	Product Specifications			
	VC-60A	K-VS215-ES-1	VS-233A	VB1672
Cell Chemistry	LFP 3.2V / 100AH	LFP 3.2V / 280AH	LFP 3.2V / 280AH	LFP3.2V/314AH
Module Energy (kWh)	5.12	215	233	1672
System Combination (Modules)	12	15	5	4
Battery Module Combination	12S1P	1P16S	1P52S	1P104S
System Nominal Voltage (V)	614.4	768	832	1331
System Energy (kWh)	61.44	215	233	1672
Discharge Current (A)	100	ADJUSTABLE		ADJUSTABLE
Charge Current (A)	95	100	182	ADJUSTABLE
Depth of Discharge (%)	90%	90% DOD	90% DoD	90% DoD
Cycle Life	>8000	>8000	>8000	>8000
Rated AC Output Power (kW)	60	100	125	840(kVA)
Max AC Output Power (kVA)	72	120	150	860kVA
Rated Output Voltage (VAC)	400	400	400	11kV-33kV
Rated Grid Frequency	50/60	50/60	50/60 (Settable)	50/60
Adjustable Power Factor	-0.8	>0.99	>0.99	0.99
THDi	>3%	>3%	<3%	<3%
System Characteristics				
Communication Interface	CAN, RS485, Wi-Fi, LTE	CAN, RS485, Wi-Fi	CAN, RS485, Wi-Fi, LTE	CAN, RS485, Ethernet
Cooling type	AC	AC	Forced Air Cooling	Forced Air Cooling
Thermal Runway Management	Aerosol Extinguishing or PFH			
Thermal Management	Air-Cooling Technology	Air-Cooling Technology	Liquid Cooling	Liquid Cooling
Warranty	5YR paid 6th-15th	5YR paid 6th-15th	5YR paid 6th-15th	3YR paid 4th-15th
General Parameters				
Battery Model	VC061050A0-EU	K-VS215-ES-1	K-KS233J25A0-US	K-PN1670LCBAO-EU
Dimensions (W*D*H) (mm)	750*950*2280	1250*1200*2350	1100*1450*2350	2991*2438*2591
Weight (KG)	1050	2150	2950	15000
IP Rating	IP55	IP55	IP54	IP54
Altitude (m)	< 2000	< 2000	< 2000	< 3000
Operating Temp (°C)	Neg 20 - 55	Neg 30 - 55	Neg 20 - 55	NEG30 - 44 (Derating over 45C)
Operating Humidity (RH)	5%-85%	0-95%	0-95%	0-95%
Noise Level (db)	N/A	<75	<75	<75
Storage Conditions	neg 20-35 degrees	neg 20-35 degrees	neg 20-35 degrees	neg 20-35 degrees

Let's Start Your Clean Energy Journey

Book a free site assessment today to find out how VESS can help power your energy transition.



Your Benefits



No Capital Required



Immediate Savings



ESG Alignment & Carbon Reduction



Scan to learn more or schedule your free assessment



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