



# VESTWOODS

LEADING GREEN TECHNOLOGY TOUCHING LIVES

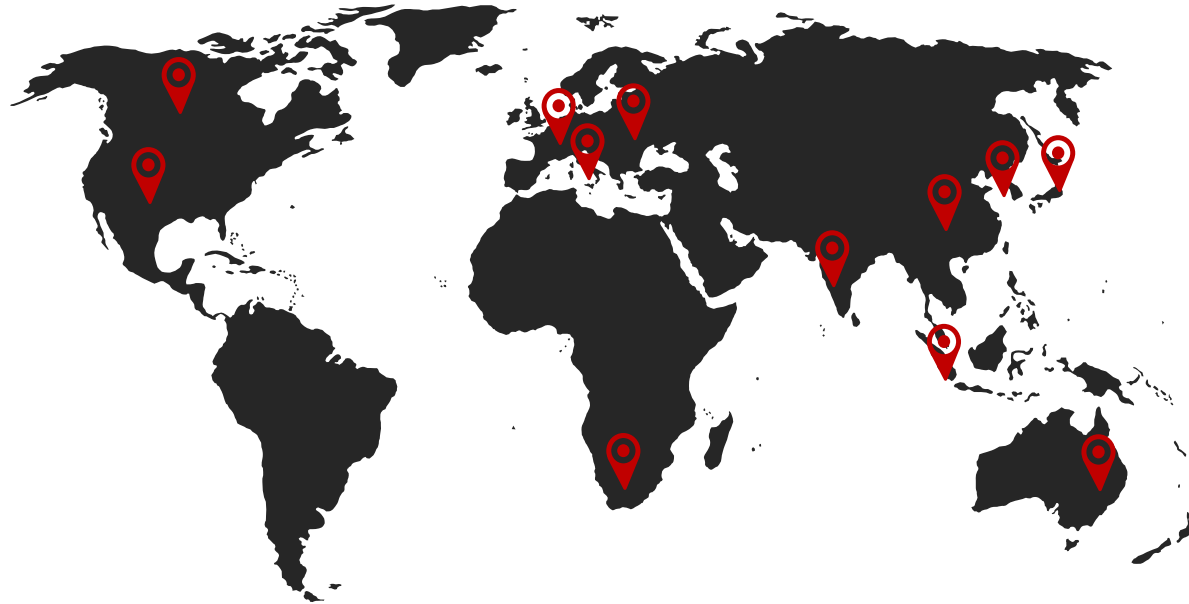
# Über Vestwoods



- Mittelständischer Batteriehersteller mit Zentrale in Hangzhou, China
- Gegründet 2016
- Rund 400 Mitarbeiter
- Stromspeicher für Telekom- und Industrie-Kunden sowie Eigenheime
- Ca. 100 Mio. US \$ Jahresumsatz weltweit
- Eigene Forschung und Entwicklung mit
  - Mehr als 100 Entwicklungsingenieure, erfahrenes Personal
  - Hardware- und Softwareentwicklung
  - Höchster Qualitätsanspruch
  - Eigenes IP und Patentportfolio
- Eigene Produktionsstätten
  - Nantong: Modernste Ausstattung
  - 4 vollautomatisierte Produktionslinien
  - Kapazität 5GWh pro Jahr
  - Weitere Fertigung in Südafrika
- Finanzielle Stärke
  - Seit April 2024 51%-Beteiligung von Nahui, des Geschäftsbereichs Erneuerbare Energien des Haier-Konzerns



# Zu unseren weltweiten Kunden zählen namhafte, anspruchsvolle Unternehmen



## 150+ Kunden in 30+ Ländern.

Zu unseren Kunden pflegen wir eine langfristige Beziehung, weil sie von und das bekommen, was sie benötigen.



# Industrie- und Gewerbespeicher (ESS) Vom Batterie-Cluster zum vollintegrierten Speichersystem



CONTAINER ESS — 10ft / 20ft CONTAINER



VESS MINI  
30K/60K

**Modular  
Zuverlässig  
Leistungsfähig  
für vielfältige  
Anwendungen**

**BATTERIE-  
CLUSTER  
FÜR ESS**

768V /  
280Ah



**ALL-IN-ONE  
INDUSTRIE-  
GEWERBE- ESS  
VED215-100K**



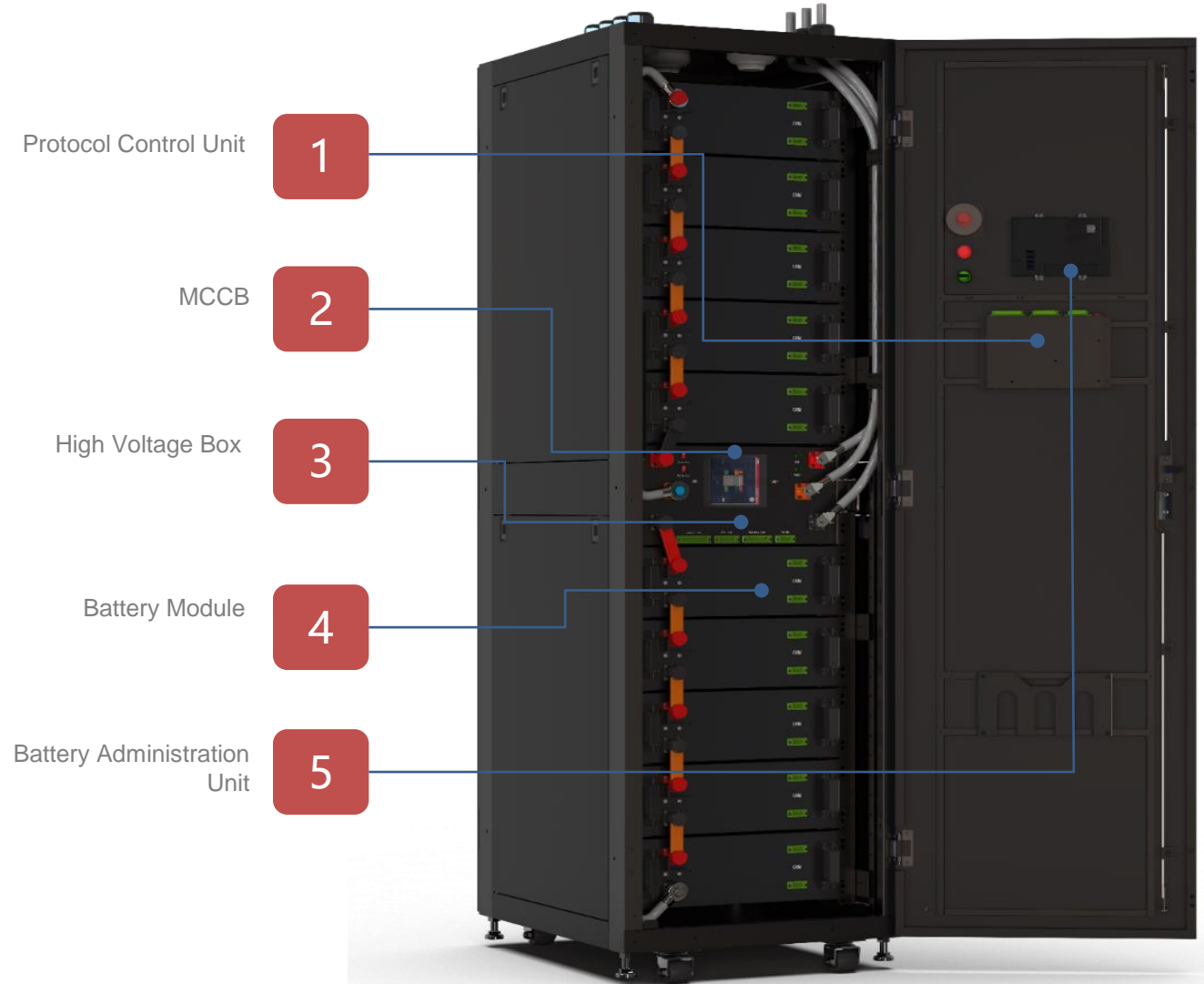
# Vollintegrierte Speicherlösung Systemaufbau



# USV-System Überblick



- Nennspannung: 512V
- Betriebsspannung: 448V~544V
- Ladekapazität: 100Ah
- Max Ladestrom: 1C
- Max Entladestrom: 3C
- Zyklentfestigkeit: 6000@80%DOD
- Kabel Ausrichtung: Top
- Kabinett Parallel Kapazität: 10 Kabinette
- Zellchemie: LiFePO4
- Backup Zeit: 10min-30min
- 19-inch Standard Schrank



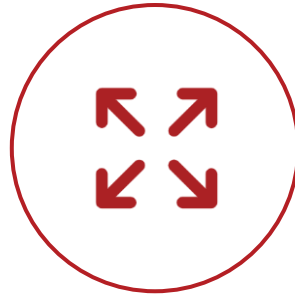
# Vestwoods USV-Batterie Lösung – Hohe Kompatibilität



- Kompatibilitätstests mit führenden USV-Herstellern :EATON, DELTA, SCHNEIDER, TMEIC etc.;
- Erfolgreiche Projekte mit den großen USV Herstellern in Indien



Standard Module



Unterstützt mehrere Cluster  
Im Parallelbetrieb



Kompatibel mit  
führenden USV Anbietern



# Heimspeichersysteme (HESS)



**Schiebmodule  
5kWh**

**KOSTENGÜNSTIG  
ROBUST  
ERWEITERBAR  
KOMPATIBEL  
EINFACHE  
INSTALLATION  
Eigenes BMS  
10 Jahre Garantie**

**Hochvolt-  
Speicher  
11-25 kWh**



**Vollintegrierte  
Wandmodule  
5/10/14,3 kWh**





# Certifications and Customer acceptance



**IEC62619 -  
Module Level Safety**



**IEC62619 -  
Rack level Safety**



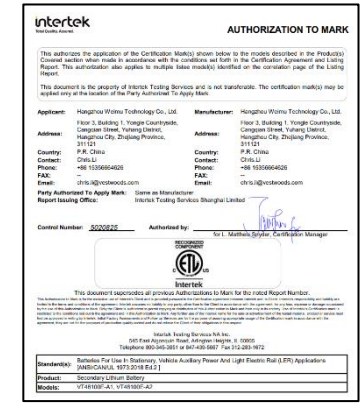
**IEC62620 -  
Module level Performance**



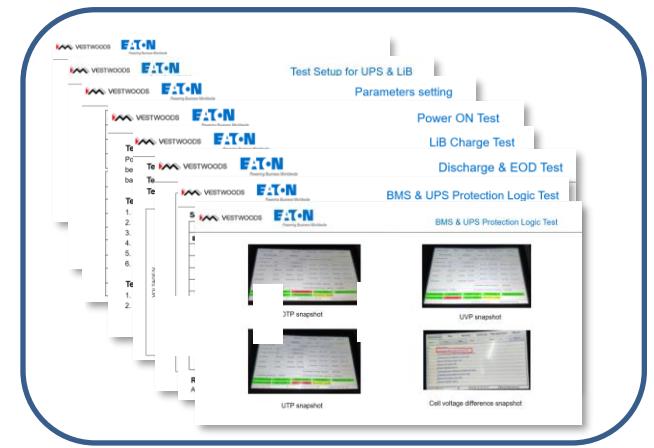
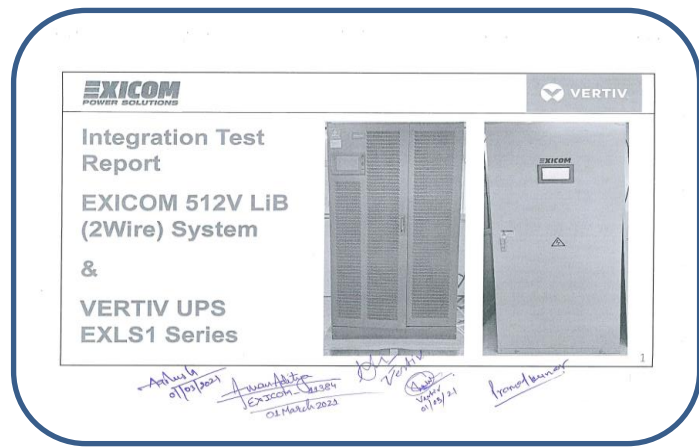
**EN61000 -  
CE/EMC**



**UN38.3 -  
Transportation**



**UL1973 -  
Module Level Safety for North America**



# Back-up

Technische Daten

# Industrial and Commercial Energy Storage System

## CVS7160-100K Specification and parameter



High product integration, rigorously control logic.



Wide voltage input range.



Background energy efficiency management, operation data remote monitoring.



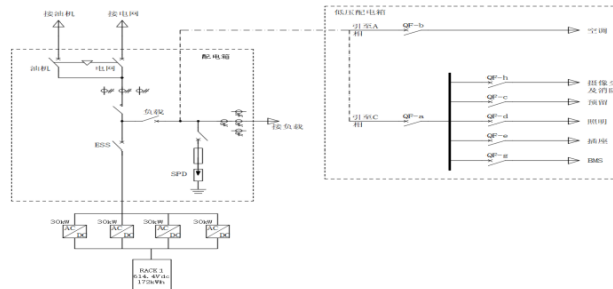
Standardization, modularization and systematization, fast parallel capacity expansion



Three levels BMS protection



Multi-scene application: peak shaving and valley filling, emergency power backup, etc



Type designation	VEI716-30K	VEI716-60K	VEI716-90K	VEI716-120K
Maximum voltage	850V			
Minimum voltage	400V			
Rated voltage range	500-850V			
Maximum input current	62A	124A	186A	248A
<b>Grid</b>				
Output	30kVA @45° C	60kVA @45° C	90kVA @45° C	120kVA @45° C
Output current	45A	90A	135A	180A
Rated voltage (Voltage range)	400 V / 230V (-20%~15%)			
Nominal grid frequency / Grid frequency range	50Hz / 47Hz~52Hz, 60Hz / 57Hz~62Hz			
Harmonic (THD)	< 3% (at nominal power)			
Power factor at nominal power / Adjustable power factor	-1 ~ 1			
<b>Off-Grid</b>				
AC voltage	400 V / 230V			
Harmonic (THD)	< 1.5% (Resistive load)			
Unbalanced three phase load	100%			
Frequency Range	50Hz / 45Hz~55Hz, 60Hz / 55Hz~65Hz			
Output overload	110% 10min, 150% 30s			
Maximum efficiency	98%			
<b>Battery interface</b>				
Battery Type	LFP			
Battery capacity	200kWh(0.5C)			
Discharge depth	95%			
Temperature	-20°~50°			
Cycle Life	6000			
Cooling	Air conditioner			
Compliance	IEC62619, EN61000, UN38.3, UL1642(Cell)			
<b>General Data</b>				
Dimensions (W*H*D)	1900*2000*1078mm			
Degree of protection	IP 54			
Cabinet anti-corrosion	C3/C4/C5			
Max. operating altitude	4000 m (> 3000 m derating)			
Communication Interface	EMS:Modbus_TCP, Modbus_RTU, CAN, PCS:CAN, 4G(IOT)(optional), HMI(optional), DI/DO			
HMI	7 inch LCD + button			
Battery interface	CAN/RS485			
External port	YES(Diesel Generator,Grid, Photovoltaic)			



ITEM	PARAMETER
NOMINAL ENERGY OF BATTERY CLUSTER	215.04kWh
CONFIGURATION	240S1P (15 Modules in series)
DIMENSIONS(W*D*H)	1200*750*2260 mm
WEIGHT	~1650kg
NOMINAL CAPACITY @ 25°C	280Ah
NOMINAL VOLTAGE	768V
VOLTAGE RANGE	672VDC ~ 816VDC
MAX. CHARGE CURRENT @ 25°C	280A
MAX. DISCHARGE CURRENT @ 25°C	140A
CERTIFICATIONS	UN38.3、UL1642 (Cell)
OPERATING TEMPERATURE	0°C~+55°C
RECOMMENDED TEMPERATURE	25°C
COMMUNICATION	RS485、CAN
IP Class	IP20
CYCLE LIFE (80% DOD @ 25°C)	≥6000
DISCHARGE DEPTH (DOD)	100%
BATTERY TYPE	LFP
INSTALLATION	INDOOR

# FlexLi-V2 System Spezifikation



51.2V100Ah Batterie Module



512V100Ah Batterie-System

Item	Parameter		VES512/100
Battery Module	Rated Voltage	V	51.2
	Rated Capacity	Ah	100
	Size (L*W*H)	mm	465*560*154
	Weight	Kg	56
Battery System	System Components	1~10modules+1 HVb+1 Communication Box	
	Rated Voltage	V	512 (51.2~512)
	Rated Energy	kWh	51.2
	Max Charge/Discharge Current	A	100/300
	Size (L*W*H)	mm	600*800*2000
	Weight	Kg	750
	Communication Port	CAN、RS485、DI/DO、SNMP (Optional)	
	Operation Temperature	°C	0~45
	Protection	Over/Low Voltage, Over/Low Temperature, Over Current, Short Circuit	

# V-POWER PLUS

11.2/14.4/17.2/20.2/ 23.0/25.9  
kWh Battery



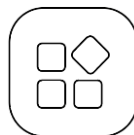
Safe LFP cells  
Long cycle life-**6000 cycles**



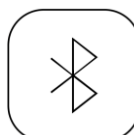
5 years warranty  
15+ year design life



HV system  
**200V-600V HV battery system**



Easy expandability  
Max. support **6 pcs** in parallel



**Bluetooth APP** (Android&IOS)

Models	V-Power Plus S4	V-Power Plus S5	V-Power Plus S6	V-Power Plus S7	V-Power Plus S8	V-Power Plus S9
Schematic Diagram						
Cell Type	LFP					
Nominal Energy	11.52kWh	14.40kWh	17.28kWh	20.16kWh	23.04kWh	25.92kWh
Number of Battery Modules	4	5	6	7	8	9
Nominal Capacity	50Ah					
Nominal Voltage	230.4V	288.0V	345.6V	403.2V	460.8V	518.4V
Operating Voltage Range	201.6V-259.2V	252.0V-324.0V	302.4V-388.8V	352.8V-453.6V	403.2V-518.4V	453.6V-583.2V
Charge Current/Max. Continuous	50A					
Discharge Current/Max. Continuous	50A					
Recommended Depth of Discharge	80%					
Operating Temp. Range/Charge	0°C-50°C					
Operating Temp. Range/Discharge	-20°C-55°C					
Dimensions (W*H*D)	570*819*367mm	570*969*367mm	570*1119*367mm	570*1269*367mm	570*1419*367mm	570*1569*367mm
Weight	139kg	165kg	191kg	217kg	243kg	269kg
IP	IP55					
Expansion	Max. 6 groups in parallel operation					
Communication	CAN/WIFI/Blue-tooth					
Cooling Mode	Natural cooling					
Display	WIFI/Bluetooth APP+Light strip					
Cycles	6000@80% DOD, 25°C					
Design Life	15+ years					
Installation	Floor Mounted					
Environment	Indoor					
Allowed Humidity Range	≤95% RH					
Compatible Inverters	Deye/Solis/Hoymiles/Senergy/Afore/Megarevo etc.					
Design Standard	UN38.3, IEC 62619, IEC 62477-1, IEC 63056, IEC 62040, CE-EMC					

# VE51200W

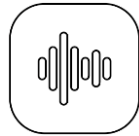
10.24 kWh Battery



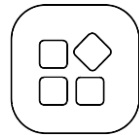
Safe LFP cells  
Long cycle life-**6000 cycles**



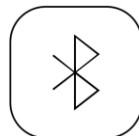
5 years warranty  
15+ year design life



Floor mounted  
**IP65** for outdoor installation



Easy expandability  
Max. support **16pcs** in parallel



**Bluetooth APP** (Android&IOS)

Model	VE51200W
Schematic Diagram	
Cell Type	LFP
Nominal Energy	10.24kWh
Nominal Capacity	200Ah
Nominal Voltage	51.2V
Operating Voltage Range	42.0V~57.6V
Nominal Charge Voltage	57.6V
Charge Current/Max. Continuous	150A
Discharge Cut-off Voltage	42.0V
Discharge Current/Max. Continuous	150A
Recommended Depth of Discharge	80%
Ambient Temperature/Charge	0~60°C
Ambient Temperature/Discharge	-20~60°C
Dimension/W*H*D	530*762.5*260.5mm (With the battery base)
Net Weight	91kg
IP	IP65
Expansion	Max. 16 units in parallel
Color	Red/Silver/Blue/White
Communication	CAN/RS485
Cooling Mode	Natural
Cycle Life	6000, 80%DOD@25°C
Design Life	15+ Years (25°C/°F)
Installation Method	Floor-standing installation
Allowed Humidity Range	≤95% RH
Altitude	<2000m
Compatible Inverters	Deye/Solis/Hoymiles/Senergy/Afore/Megarevo/SRNE/Inhenergy etc.
Protections	Over charge/Over discharge/Over temperature/Over current/Short circuit etc.
Design Standards	UN38.3/ IEC62619/CE-EMC/UL1973