# ELECUBE-5K/WALV-10K LV Wall-Mounted Energy Storage





## • Safer

Lithium Iron Phosphate (LFP) Battery, free of cobalt and other flammable and explosive elements, DOD up to 90%, high economic effect.

## • Flexible

Max. 15units in parallel, expand capacity and power.

#### • Smart

Equipped with BMS management system, voltage, current, temperature collection, intelligent adjustment of charge and discharge power, almost compatible with all brand inverter communication in the market.

Standard display, easy to observe the real-time status of the battery, switch communication protocol, etc.

#### • Eco-Friendly

Use environmental protection materials, the whole module non-toxic,pollution-free.

### • Quality Assurance

Five years free warranty, additional five years of technical support.

## **Technical Parameters**

Model	ELECUBE-5K	WALV-10K	
Main Parameter			
Battery Chemistry	LiFePO4		
Nominal Capacity (Ah)	100	200	
Nominal Voltage (V)	51	1.2	
Operating Voltage(V)	46.4~57.6		
Nominal Energy (kWh)	5.12	10.24	
Usable Energy (kWh)	4.61 (90%DOD)	9.22 (90%DOD)	
Scalability	Max. 15 pcs pack in parallel		
Rated DC Power(kW)	2.56	4.1	
Max DC Power(kW)	3.58	6.14	
Charge/Discharge Current (A)	Recommend:50	Recommend:80	
	Max:70	Max:120	
Other Parameter			
Recommend Depth of Discharge	0.9		
Dimension (W/D/H,mm)	420*173*674	421.6*259*635	
Weight Approximate(kg)	58	90	
IP Rating of Enclosure	IP65		
Operating Temperature	0°C~60°C		
Storage Temperature	0°C~35℃		
Humidity	5%~95%		
Altitude	≤2000m		
Cycle Life	≥6000 times		
Installation	Wall-Mounted	Wall-Mounted, Floor-Mounted	
Cooling Mode	Natural Cooling		
Communication Port	CAN,RS485, RS232		
Warranty Period	10 years (5+5)		
Certification	CE, IEC62619, MSDS, ROHS, UN38.3	CE, IEC62619, CB, MSDS, ROHS, UN38.3, JIS C 8715	

## The current is affected by temperature and SOC



Lithium Battery

# LOW VOLTAGE WIFI MONITORING



# MODEL: (ALL BATTERY WITH PACE BMS)

Together with our BMS supplier PACE, we developed a battery-built-in WIFI monitoring device that supports local Bluetooth and WIFI remote connection methods.

Support switching between Chinese and English.

Local Control: BLE Bluetooth communication, directly search for the nearby Bluetooth signal, a pair of continuous connection, control devices, no account login, do not do binding records, that is, ready to use.

**Remote Control:** WiFi communication, which realizes the purpose of controlling the device rather than in the same geographical location. It requires account registration and login, records the binding between the account and the device, and requires distribution network operation.



# **APP INTERFACE DISPLAY**





1





10:48 🞑	Ö 🖾 🗟 iii ii			
C Parameter s	settings	Save		
PACK		~		
PACK quantity	1	]		
PACK Remaining Capacity	189920	MAH		
PACK full charge capacity	199920	MAH		
PACK design capacity	200000	MAH		
Capacity Release Percentage (SO	C): 95	]		
Equipment voltage and current information				
Full cut-off voltage:	56000	) mV		
Full cut-off current:	2000	mA		
Low capacity alarm value:	5	) %		
Number of battery strings:	16	]		
Balanced opening voltage:	3400	) mV		
Equilibrium opening pressure difference:	30	) mV		
Number of charging and discharging cycles:	4	]		
Device Sleep Infor	۲	>		
PACK data Historical data	Parameter settings	Device nformation		
	2			

10:49 🚨	🗑 🖾 🛜 til til	54 4
A Parameter se	ttings	Sav
Device Sleep Information		V
Sleep cell voltage:	3150	) mV
Sleep delay time:	5	min
Short circuit protection delay:	300	us
Current limit opening current value:	100	) A
Sverall overcharge and overdischarge		
Overall overcharging function contro	d:	ON
Overall overcharge alarm:	55.68	) v
Overall overcharge protection delay:	1000	ms
Overall overcharge protection:	57.60	) v
Overall overcharge recovery:	56.00	) v
Overall over discharge function control:		
Overall over discharge alarm:	48.80	) v
Overall over discharge protection delay:	1000	ms
Overall Overdischarge prot	45.60	v
PACK data Historical data	Parameter settings In	Device formation
ΞΟ	$\triangleleft$	

10:49 🚨 🛛 🗑 🖬 🕯	ö 🖾 😤 äl äl 📧 †			
Parameter settings	Save			
Single overcharge and overdischarge function	~			
Single overcharging function control:				
Single overcharge alarm: 3.48	v			
Single overcharge protection delay: 1000	ms			
Single overcharge protection: 3.60	v			
Single overcharge recovery: 3.50	v			
Single body over discharge function control:				
Individual over discharge alarm: 3.05	v			
Single body over discharge 1000	ms			
Individual over discharge protection: 2.80	v			
Single body over discharge recovery: 3.08 V				
$\red{linear}$ Charge and discharge overcurrent function $\checkmark$				
Charging overcurrent function control:				
Charging overcurrent alarm: 105	A			
Charging overcurrent protection 1000	ms			
PACK data Historical data	Device Information			
≡ □ ⊲				

10:49 🞑	õ 🖾 📚 🎁 i	il 💷 4	
A Parameter s	ettings	Save	
Discharge overcurrent function con	ntrol:		
Discharge overcurrent alarm:	105	A	
Discharge overcurrent protection delay:	1000	ms	
Discharge overcurrent protection:	110	A	
Discharge overcurrent protection delay 2:	500	ms	
Discharge overcurrent protection 2	: 150	_ A	
Discharge overcurrent recovery:	0	<b>A</b>	
[°c] Cell high and low tempe	rature function	~	
High temperature function control of battery cells:			
Charging high temperature alarm:	60.0	o"	
High temperature protection during charging:	65.0	o.	
High temperature protection recovery during charging:	55.0	o,	
Discharge high temperature alarm: 65.		o"	
High temperature protection during discharge:	70.0	o.	
High temperature protection recovery during discharge:	60.0	o.	
	E		
PACK data Historical data	settings	Information	
Ξ 0	$\triangleleft$		

10:49 🚨	🍯 🖾 🅱 til til	54 4
K Parameter s	ettings	Save
discharge:		Ŭ
Discharge low-temperature protection recovery:	-15.0	°C
MOS high temperature in	nformation	~
MOS high-temperature control fund	ction:	ON
MOS high temperature alarm:	90.0	'C
MOS high-temperature protection:	115.0	°C
MOS high-temperature protection recovery:	85.0	°C
Environmental high and information	low temperature	~
Environmental function contro	d:	
Environmental low temperature alarm:	-15.0	°C
Environmental low-temperature protection:	-20.0	'n
Environmental low-temperature protection recovery:	-15.0	°C
Environmental high temperature alarm:	65.0	°C
Environmental high temperature protection:	75.0	°C
Environmental high-temperature protection recovery:	65.0	'n
	E	$\leq$
PACK data Historical data	Parameter settings Inf	Device ormation
ΞΟ	$\triangleleft$	

# **COMMUNICATION SUPPORT INVERTER**



