

# Battery Pack (Stack)



## ► Easy to install

Stackable installation, can be operated by one person;

## ► Strong scalability

It can be expanded according to the matching inverter and actual usage, stacked by 2~6 battery packs;

## ► BMS management

Integrated BMS management inside the battery pack, no need for a separate master;

## ► Comprehensive security protection functions

Real-time monitoring of cell voltage, current and temperature, three-level fault warning and multiple hardware and software protections;

## ► Overshoot and over-discharge protection

The contactor switch is used inside, and the switch is reliable; the over-discharge system is automatically powered off to reduce its own loss; (The internal contactor switch has passed UL Certification UL 60947-4-1 with Certificate Number: UL E499520 )

## ► Precise power calculation

High-precision sampling devices, combined with a variety of SOC algorithms.

Model	KY-51V105AH-S					
Battery cell	Li-ion (LiFePO4)					
Number of series	1	2	3	4	5	6
Rated voltage (Vdc)	51.2	102.4	153.6	204.8	256	307.2
Rated capacity (Ah)	105	105	105	105	105	105
Rated Energy(kWh)	5.37	10.75	16.12	21.5	26.88	32.25
Depth of discharge	90%	90%	90%	90%	90%	90%
Operating voltage range (Vdc)	46.4~56.8	92.8~113.6	139.2~170.4	185.6~227.2	232~284	278.4~340.8
Maximum charge/discharge current (A)	50	50	50	50	50	50
Dimensions (L*W*H mm)	390*380*300	390*380*600	390*380*900	390*380*1200	390*380*1500	390*380*1800
Communication method	CAN/RS485	CAN/RS485	CAN/RS485	CAN/RS485	CAN/RS485	CAN/RS485
Working temperature (°C)	0~50	0~50	0~50	0~50	0~50	0~50
Storage temperature (°C)	-20~60	-20~60	-20~60	-20~60	-20~60	-20~60
Humidity	<45%	<45%	<45%	<45%	<45%	<45%
Altitude (m)	<2000	<2000	<2000	<2000	<2000	<2000
Weight(Kg)	57	114	171	228	285	342
Cycle life	6000	6000	6000	6000	6000	6000
IP rating	IP54	IP54	IP54	IP54	IP54	IP54