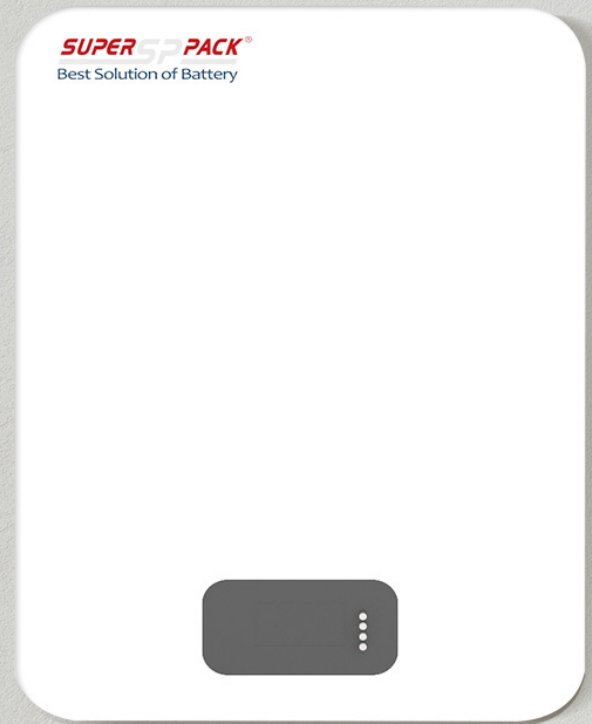


5KWH Energy Storage System for Wall-mounting



Features

- Lithium iron phosphate battery solution
- High Safety: Low-voltage ESS
- Single module: 51.2V100AH, 5.12KWH, can be independent operating
- Max. Charge/discharge power: 5.12KW
- Rated DC power 5.12KW
- Advanced BMS control
- Multiple parallel configuration, up to 12 units
- Long cycle life: 6000cycles
- Calendar life: 10+ years
- Compact size and space saving: W440*D182*H600mm
- Various countries and regions ready, including US
- Versatile 48V energy storage system: Black out or emergency back-up
- TUV IEC62619/CE-IEC61000/IEC62040



Specifications

Specifications of 5KWH Energy Storage System for Wall-mounting SP-ESS-5K-10K-A1

Cell Type	LiFePO4 (LFP)4
Rated Voltage (V)	51.2V
Rated Capacity (Ah)	100A
Rated Energy (kWh)	51.2kWh
Usable Battery Capacity (Ah)	100A
Usable Battery Energy(kWh)	51.2kwh
Battery Depth of Discharge	100%
Battery Max Charge/Discharge Power(kw)	5.12KW
Battery Pack	16S1P
Working Voltage Range (V)	44.8~57.6
Standard Charge Current (A)	20A
Max. Continuous Charge Current (A)	100A
Standard Discharge Current (A)	20A
Max Continuous Discharge Current(A)	100A
Rated DC Power(kw)	5.12KW
Standard Charging Method	0.5C CC to 57.6V; CV at 57.6V till current is 0.05C
Working Temp. (C)	Charging: 0~50; Discharging: -20~55
Working ROH	20%~80%
Storage Temp. (C)	-5~35
Self-discharging rate	≤ 5% (25 C , 50% SoC) Per Month
SoC @ end of product line	40%
Insulation Resistance (MΩ)	>100
Voltage Difference in each module (mV)	≤20
Inner Resistance of single Cell (mΩ)	≤ 20(fresh cell 50% SoC)
Cycle Life	≥ 6000cycles (DOD 70% at 0.2C)
Calendar Life	≥ 10 years
Cooling System	Nature air
IP Rating	IP20
Recommended Indoor/Outdoor Usage	Indoor
Net Weight (kg)	Approx. 54
Dimension (mm)	W440*D182*H600


Applications

- Residential energy storage system
- Off-grid energy storage
- Micro-grid applications
- UPS power supply

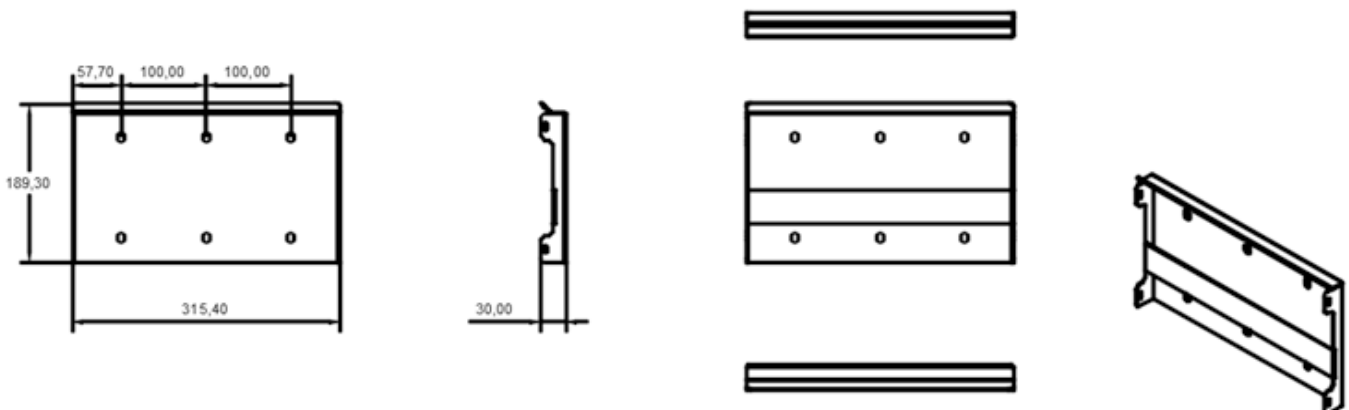




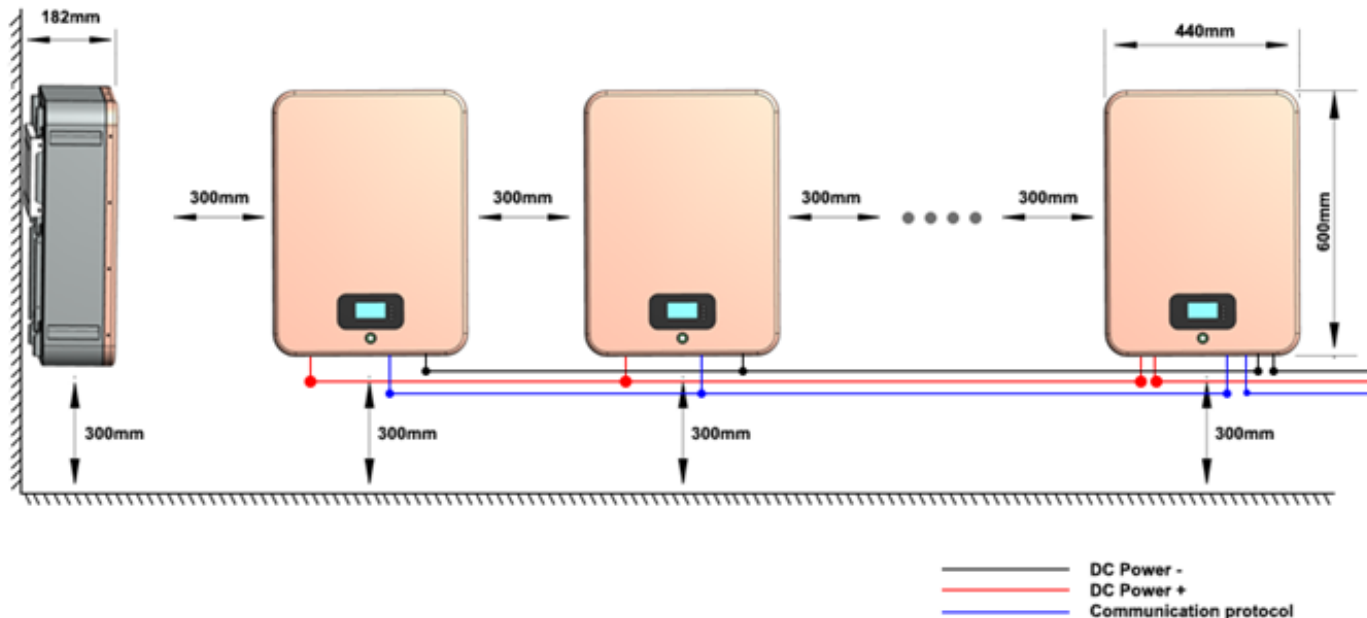
Ports Definition

Definition	
Positive +	2* Fast plug-in connector, Orange 6, 25mm ²
Negative -	2* Fast plug-in connector, Black 6, 25mm ²
RS485/CAN	Communicate with inverter, (in parallel if inverter is available)
RS485	Communicate with the upward modules (for modules in parallel)
RS485	Communicate with the downward modules (for modules in parallel)
RUN	System running status
	Power on/off switch
LCD Display and setting button	Display battery information and working mode setting
LED indicators	SoC indicator, operation status indicators, system alarm
Dry Contact	
ADD switch	BMS assign module's ID automatically

Installation



Wall Mounting Space



Inverter Matching List

Compatibility List of 5KWH Energy Storage System for Wall-mounting

www.super-pack.com.cn

Inverter		Battery	Communication	Application	Installation
Brand	Type	SPF48V100-SM-3U	Communication		
Goodwe	GW-BP	OK	CAN	On/Off grid	Powerwall / Rackmount
	SBP GW-ES	OK	CAN	On/Off grid	Powerwall / Rackmount
	EM	OK	CAN	On/Off grid	Powerwall / Rackmount
Deye(Sunsynk)	SUN-SG01LP1 series	OK	CAN/RS485	On/Off grid	Powerwall / Rackmount
	SUN-SG03LP1 series	OK	CAN/RS485	On/Off grid	Powerwall / Rackmount
Growatt	SPH3000-6000	OK	CAN	On/Off grid	Powerwall / Rackmount
	SPH2000-5000	OK	RS485 (9600)	On/Off grid	Powerwall / Rackmount
Dowell	iPower	OK	CAN		
LuxPower	LXP Hybrid 6K/8K	OK	CAN		
Victron Energy	Multiplus/Quattro 48V(via Venus-device)	OK	CAN	On/Off grid	Powerwall / Rackmount
SolaX Power	SK-SU, SK-TL, SK-BMU	OK	CAN		
Imeon Energy	IMEON 3.6 /9.12	OK	CAN		
Sofar	HYD series	OK	CAN/RS485 (115200)		Debugging in progress
Solis	RHI series	OK	CAN	On/Off grid	Powerwall / Rackmount
Steca	Solarix PLI 5000-48	OK	CAN		
Sorotec	REVO II 5.5KW	OK	CAN		
Voltronic Power	Infinisolar series 48V	OK	RS485 (9600)	On/Off grid	Powerwall / Rackmount
	Axpert series 48V	OK	RS485 (9600)	On/Off grid	Powerwall / Rackmount
Must Power	Solar Inverter PV18-5048 VHM	OK	CAN		
Schneide	Conext XW pro series	OK	CAN		Debugging in progress
Phocos	Any grid PSW-H-5KW-230V/48V	OK	RS485 (9600)		Debugging in progress
SMA	Sunny island 6.0H	OK	N/A		Powerwall
STUDER	Xtender 48V series	OK	CAN	On/Off grid	Powerwall / Rackmount
INVT	BD series	OK	CAN	On/Off grid	Powerwall / Rackmount
Sermatec	SMT-5K-TL-LV	OK	CAN	On/Off grid	Powerwall / Rackmount
Sungrow	SH5K	OK	CAN		Debugging in progress
MEGAREVO	BK-BP series	OK	CAN		Powerwall

* When compatible with Victron Multi/Quattro in off-grid application via Venus-device, it is required to have a Victron MPPT or other compatible PV inverter with Victron to avoid the system getting shut down.