

DOMESTIC BATTERY STORAGE

BATTERY WALL / BOX SERIES
BATTERY RACK-MOUNTED SERIES

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STAY AWAY FROM POWER OUTAGES

LUCOH 



Hangzhou Lucoh Lighting Technology Co., Ltd. was established in October 2012 and is an innovative technology enterprise integrating design and development, manufacturing, and export of rechargeable industrial Jobsite lights. In 2020, we were awarded the title of national high-tech enterprise. Lucoh Lighting is currently doing business mainly in Japan in Asia, the United Kingdom, and Germany in Europe, as well as Australia and the United States and Canada in North America. We have ODM and OEM cooperation with well-known brands in these regions and countries. In 2020, we also started to sell the products under our own brands. LUCOH in China and LUXROVER in America.

Based on our rich experience and well-known R&D capability, we started the solar street light in 2017 as customers requested. And in 2021, we split this business from Lucoh Lighting and set up a new company Solarace New Energy to develop solar lights, industrial storage energy, intelligence poles ect new energy products. In the early years of the establishment, the project of Quzhou Union Avenue of intelligent poles led by Iron Construction was produced, installed by us, and widely praised by customers and owners.

The two companies headquarters are in Hangzhou and we have built different plants for each brand to manufacture the products. One is located in Jiande for LUCOH's products. Another is located in Ninghai for SOLARACE's products. In order to better control the product's quality, we invested in a battery factory in Hangzhou in 2023 to provide batteries and related tests for all the products.

HIGH VOLTAGE STACKABLE ENERGY STORAGE BATTERY



Battery Ground Stackable Series

Easy installation

25kg battery module, one-person installation. No cable connection, plug and play.

Safe & Reliable

Lithium iron phosphate (LFP) cell. BMS built in & Passive protection by fuse and aerosol.

Environment Adaptability

Wide range of temperature: -10°C-55°C. IP65 Design.

Perfect Compatibility

Compatible to residential three phase inverters.

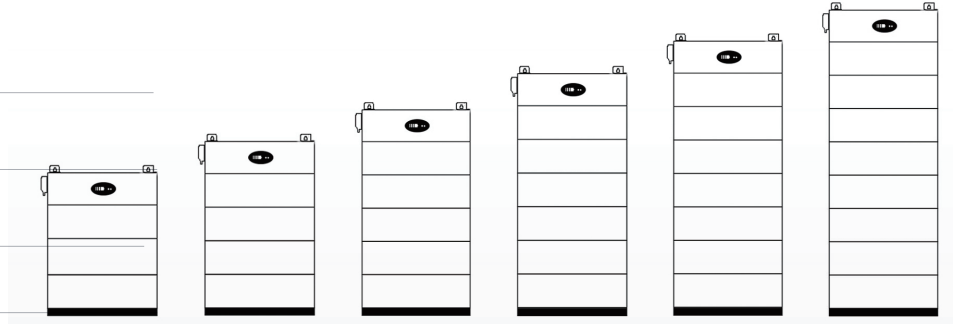
Battery Specifications

BATTERY ENERGY STORAGE SYSTEM SPECIFICATIONS

Model	GroundHV-7500
	GroundHV-10K
	GroundHV-12.5K
	GroundHV-15K
	GroundHV-17.5K
	GroundHV-20K
Nominal Voltage	GroundHV-7500: 144V
	GroundHV-10K: 192V
	GroundHV-12.5K: 240V
	GroundHV-15K: 288V
	GroundHV-17.5K: 336V
	GroundHV-20K: 384V
Capacity	52AH
Nominal Battery Energy	GroundHV-7500: 7.488KWH
	GroundHV-10K: 9.984KWH
	GroundHV-12.5K: 12.48KWH
	GroundHV-15K: 14.976KWH
	GroundHV-17.5K: 17.472KWH
	GroundHV-20K: 19.968KWH
Discharge Voltage Range	GroundHV-7500: 114.7V-159.7V
	GroundHV-10K: 153V-213V
	GroundHV-12.5K: 191.2V-266.2V
	GroundHV-15K: 230V-319V
	GroundHV-17.5K: 267.7V-372.7V
	GroundHV-20K: 306V-426V
Max. Charging Current	35A
Max. Discharging current	35A
Communication	CAN OR RS485
Cycle Life	≥6000 25°C 0.5C
Design Life	≥10 years

MECHANICAL SPECIFICATIONS

Dimensions	GroundHV-7500: 606 x220x730mm
	GroundHV-10K: 606 x220x900mm
	GroundHV-12.5K: 606 x220x1070mm
	GroundHV-15K: 606 x220x1240mm
	GroundHV-17.5K: 606 x220x1410mm
	GroundHV-20K: 606 x220x1580mm
Total Weight	GroundHV-7500: 80KG
	GroundHV-10K: 105KG
	GroundHV-12.5K: 129KG
	GroundHV-15K: 152.3KG
	GroundHV-17.5K: 176.2KG
	GroundHV-20K: 199.5KG
Mounting Options	Floor-mounted



COMPLIANCE INFORMATION

Battery Energy Storage System Certifications	UN38.3, CE, CB, ROHS, MSDS, IEC, EMC
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ENVIRONMENTAL SPECIFICATIONS

Charge Temperature	0°C ~ +55°C
Operating Temperature	-20°C ~ +55°C
Storage Temperature	-20°C ~ +35°C
Environment	Indoor



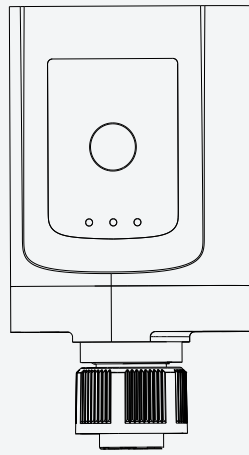
Communication Stick

Firmware Supports OTA Upgrade:

You can upgrade and debug protocols remotely without the need to update and debug on site)

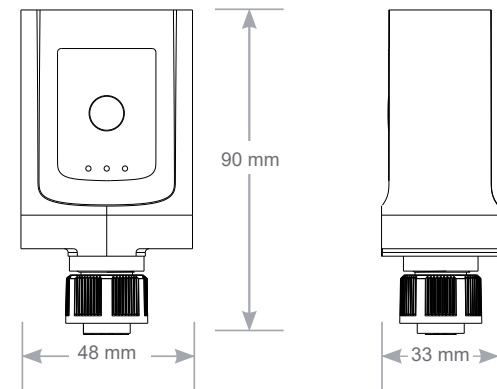
Connect APP :

monitor the battery in real time.



COMMUNICATION STICK SPECIFICATIONS

Product type	TsW-T211
product name	Communication Stick
Input	DC input (5V - 12V) Power 1W
wireless protocol	Wi-Fi+Bluetooth
Working humidity	-20℃ — +85℃
Operating temperature	IP65
size	90* 48*33 mm(without antenna)
Weight	63g



HARDWARE SPECIFICATIONS

Wi-Fi connectivity	802.11B/G/N20 Channel 1-14@2.4GHz (CH1-11 for uS/CA, CH1-13 for EU/CN) Support WEP/WPA/WPA2/WPA2 PSK (AES) security mode
Bluetooth	Bluetooth 4.2 Low Energy
Electrical Interface	RS485
Mechanical interface	Large 4-core aviation connector

Adapted to the Main Brands Of Inverters.



Solarace Inverter---- Three Phase ESS Hybrid Inverter



Mode	HY8KH3	HY10KH3	HY12KH3
Input (PV)			
Max.power(kW)	12	15	18
Max. DC voltage(V)	1,000		
MPPT voltage range(V)	180~850		
Max.input current of single MPPT(A)	13		
MPPT tracker/strings	2/1		
AC output			
Rated output power(kVA)	8	10	12
Max. output current(A)	12.7	15.9	19.1
Grid voltage/range(v)	400/360~440		
Frequency (Hz)	50/60		
power factor	0.8lagging-0.8leading		
Battery			
Battery voltage range(V)	125~600		
Max. charging voltage(V)	600		
Full battery voltage(V)	250	300	350
Max.input current of single MPPT(A)	40		
Battery type	lithium /Lead-acid		
communication Interface	CAN/RS485		
Ingress protection	IP65		
Weight(kg)	29		
Display and communication			
Safety standard	IEC/EN62109-1/-2,IEC/EN62477-1		
EMC	IEC/EN 61000-6-1,IEC/EN 61000-6-3		
On-grid	Europe: EN50549-1,Germany: VDE4105/0124,UK: G99, South Africa: NRS097-2-1:2017		
Interface:RS485/Wifi/4G/CAN/DRM	Yes/ opt/ Opt/ Yes/ Yes		

WALL MOUNTED BATTERY

10.44KWH



5.12KWH



2.56KWH



BATTERY WALL SERIES

Easy installation

Wall-mounted or floor-mounted is selected freely.

Safe & Reliable

Lithium iron phosphate(LFP) cell.BMS built in &Passive protection by fuse.

Environment Adaptability

Wide range of temperature: -10°C-55°C.IP65 Design.

Perfect Compatibility

Compatible to both residential single & three phase inverters.

Battery Specifications

BATTERY ENERGY STORAGE SYSTEM SPECIFICATIONS

Model	LFPWALL-10K-V2 LFPWALL-5000 LFPWALL-2500
Nominal Voltage	51.2V(16 series)
Capacity	LFPWALL-10K-V2 : 204AH LFPWALL-5000 : 102AH LFPWALL-2500 : 52AH
Nominal Battery Energy	LFPWALL-10K-V2 : 10440WH LFPWALL-5000 : 5220WH LFPWALL-2500 : 2660WH
Max. Output Power	LFPWALL-10K-V2 : 7168W LFPWALL-5000 : 3840W LFPWALL-2500 : 1792W
Discharge Voltage Range	LFPWALL-10K-V2 : 43.2-57.6V LFPWALL-5000 : 45-57V LFPWALL-2500 : 45-57V
Charge Voltage	57.6V
Max. Charging Current	LFPWALL-10K-V2 : 90A LFPWALL-5000 : 40A LFPWALL-2500 : 35A
Max.Discharging current	LFPWALL-10K-V2 : 150A LFPWALL-5000 : 72A LFPWALL-2500 : 35A
DOD	90%
Modules Connection	1-8 in parallel
Communication	CAN OR RS485
Cycle Life	≥6000 25°C 0.5C
Design Life	≥10 years

MECHANICAL SPECIFICATIONS

Dimensions	LFPWALL-10K-V2: 790mm*586mm*197mm LFPWALL-5000: 536.3mm*464mm*180.5mm LFPWALL-2500: 536mm*365mm*196mm
Total Weight	SRAP-W512100:96kg SRAP-W512150:48.5kg SRAP-W512200:31kg
Mounting Options	wall mount/ floor-mounted



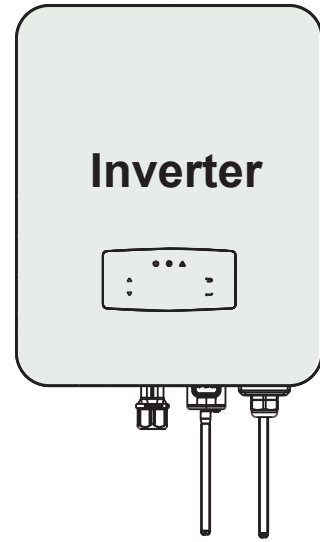
COMPLIANCE INFORMATION

Battery Energy Storage System Certifications	UN38.3,CE,CB,ROHS,MSDS,IEC,EMC
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ENVIRONMENTAL SPECIFICATIONS

Charge Temperature	0°C~+55°C
Operating Temperature	-10°C~+55°C
Storage Temperature	-20°C~+35°C
Environment	Indoor

Adapted to the Main Brands Of Inverters.



Solarace Inverter---- Single Phase String PV Inverter



Mode	AF3K-SL	AF5K-SL	AF6K-SL
Input(PV)			
Max. DC Input Power (kW)	4.5	8.3	9
Max. PV Voltage (V)	550		
DC Input Voltage Range (V)	150-1000		
MPPT Voltage Range (V)	80 - 500		
Start-up Voltage (V)	100		
Max. DC Input Current (A)	18.5x 2		
No. of MPPT Tracker	2		
Battery Port			
Battery Nominal Voltage (V)	51.2		
Battery Voltage Range (V)	40 - 60		
Max.Charge/Discharge Pow (W)	3k	4.8k	4.8k
Max.Charge/Discharge Current (A)	80		
Compatible Battery Type	Li-ion / Lead-acid		
AC Grid Output			
Nominal AC Output Power (VA)	14	26	28
Max ConTInuous Power (kVA)	3	5.5	6
Max.AC Output Current (A)	10.5	13.5	17
Nominal AC Voltage (V)	220 / 230		
Nominal AC Frenquency (Hz)	50 / 60		
General Data			
Enclosure Protect Level	IP65/NEMA4X		
Dimensions (H x W x D)(mm)	513 x 370 x 192mm		
Weight (kg)	17kg		
Display & Communication Interfaces	LCD,LED,RS485,CAN, Wi-Fi,GPRS,4G		
Certification & Approvals	NRS97,G98/G99,EN50549-1,C10/C11,AS 4777,VDE-AR-N4105,VDEO126, IEC62040,IEC62109-1, IEC62109-2		

Modular Design
Easily Expandable up to
6 Modules 30.72KWH_(max)



BATTERY RACK-MOUNTED SERIES

Easy installation

Rack-mounted installation, easy to grab.

Safe & Reliable

Lithium Iron phosphate(LFP) cell only. BMs built in.

Environment Adaptability

Wider temperature range: -20°C-55°C. IP52 protection class.

Perfect Compatibility

Compatible with both residential single & three phase inverters.

Battery Specifications

BATTERY ENERGY STORAGE SYSTEM SPECIFICATIONS

Model	LFPR-51B100L-V1 LFPR-51B100L-V2
Nominal Voltage	51.2V
Capacity	100AH
Nominal Battery Energy	5.12kWh
Max. Output Power	3584W
Discharge Voltage Range	43.2-57.6V
Charge Voltage	57.6V
Max. Charging Current	50A
Max. Discharging current	70A
DOD	90%
Modules Connection	1-6 in parallel
Communication	CAN OR RS485
Cycle Life	≥6000 25°C 0.5C
Design Life	≥10 years

COMPLIANCE INFORMATION

Battery Energy Storage System Certifications	UN38.3, MSDS
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ENVIRONMENTAL SPECIFICATIONS

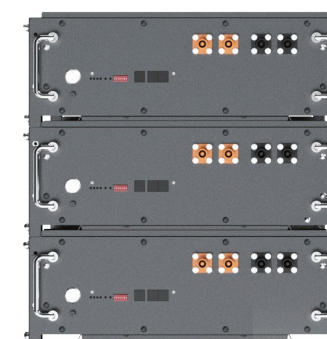
Charge Temperature	0°C~+55°C
Operating Temperature	-20°C~+55°C
Storage Temperature	-20°C~+35°C
Environment	Indoor

MECHANICAL SPECIFICATIONS

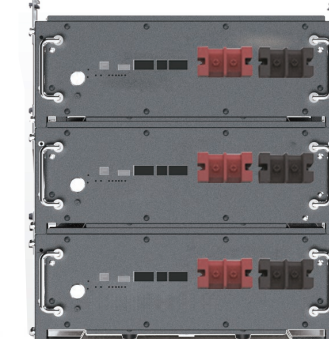
Dimensions	520mm*474mm*150mm
Total Weight	43.8kg
Mounting Options	Rack-mounted



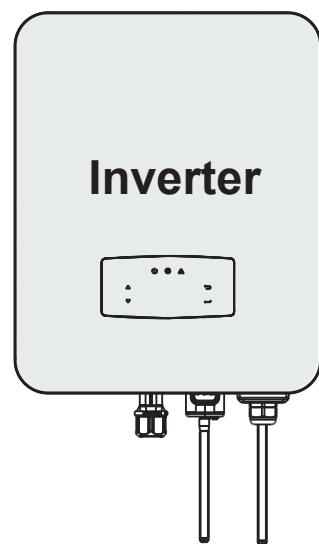
LFPR-51B100L-V1 *3



LFPR-51B100L-V2 *3



Adapted to the Main Brands Of Inverters.



Solarace Inverter---- Off Grid Inverter



Mode	HYLV-3K	HYLV-5K
Inverter mode		
Rated output voltage	230V (208/220/230/240 settable)	
Rated output power(W)	3000 (2600/2700/3000)	3000 (2600/2700/3000)
Inverter efficiency (peak)	>90%	
Start-up Voltage (V)	10ms (typical)	
Utility mode		
Rated input voltage	220/230VAC	
Rated input current	13.6A	
Frequency range	40-70Hz	22.7A
Utility charging		
Battery Type	Lead-acid or lithium batteries	
Maximum charging current	10-130A	2-80A
Charging vol FV Settable	26.6-27.8V	53.2-55.6V
Tag range CV Settable	28-29v	56-58V
overcharge protection	40A alarm and charge off after 1 minute	
Solar Charging		
PV Operating Voltage Range	30-145V	120-500v
Battery voltage range	20-30V	40-60V
MPPT Voltage Range	30-115V	120-430V
Maximum output power	3000W	5000W
Solar charging current range(Settable)	5-60A	0-80A
complete machine system		
Standards and Certification	EN/IEC 61000, EN/IEC 62040, GB/T 7260,GB/T 4943,YD/T1095,TL	
IP Production	IP20	
operating temperature range	-15°C to 55C	
Communication Interface	232 port expandable SNMP card, USB, dry node control	



ODM/OEM WELCOME

Choose what you want or we suggest a professional solution about home energy storage.

①
PANELS

②
INVERTER

③
BATTERY

④
METER

⑤
UTILITY