

## Links to find out more



### Beginners

For beginners or if you want to find out more about our inverter and what they can do for you.

Visit: [www.sunsynk.org/ourinverters](http://www.sunsynk.org/ourinverters)



### Approved Installers

To see our approved installers and their locations please scan the code.

Visit: <https://www.sunsynk.org/approvedinstallers>



### Global Sales Team

To contact a member of our sales team please scan the code.

Visit: [www.sunsynk.org/globalsalesteam](http://www.sunsynk.org/globalsalesteam)



### Technical Support

For advice, help or troubleshooting please scan the code.

Visit: <https://www.sunsynk.org/tech-support>



### Our Distributors

To see distributors in your area please scan the code.

Visit: [www.sunsynk.org/ourdistributors](http://www.sunsynk.org/ourdistributors)



Email us: [sales@sunsynk.com](mailto:sales@sunsynk.com)



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#### Netherlands Office

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HK Address: Units 702-704, 7/F Texwood Plaza, 6 How Ming Street, Kwun Tong, Kowloon, Hong Kong

SA Address: 80 Highview Boulevard, Ferndale, Randburg, 2160, South Africa

NL Address: Henri Wijnmalenweg 8, 5657 EP Eindhoven, Netherlands

AU Address: 230 Morrison Road, Midvale, WA 6056, Australia

SUN  SYNK<sup>®</sup>

No Power No Problem



# SUNSYNK IP65 BATTERY

Revolutionising the Way We  
Store, Generate & Control Energy

[www.sunsynk.com](http://www.sunsynk.com)



**Convenient:** Quick installation, wall-mounted and standard 19-inch embedded design module is convenient for installation and maintenance.



**Safe & Reliable:** Cathode material is made from  $\text{LiFePO}_4$  with safety performance and long cycle life. The module has less self-discharge, up to 6 months on-shelf without charging, no memory effect, excellent performance of shallow charge and discharge.



**Eco Friendly:** The whole module is non-toxic and environmentally friendly.



**Flexible Configuration:** Multiple battery modules can be wired in parallel for expanding capacity and power. Supports remote upgrade (compatible with Sunsynk inverters).



**Intelligent BMS:** Our BMS includes protection functions including over-discharge, overcharge, overcurrent and overhigh or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.



**Wide Temperature:** Working temperature range is from  $-20^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ , with excellent discharge performance and cycle life. Please note, the battery cannot charge if temperature falls below  $0^{\circ}\text{C}$ . This helps increase cell longevity.

Our IP65 Lithium Iron Phosphate battery is the newest energy storage product developed and produced by Sunsynk. It can be used to support reliable power for various types of equipment and systems. It is especially suitable for application scenarios of high power, limited installation space and cycle life.

This energy storage module includes lithium-iron phosphate rechargeable batteries with 5.12kWh capacity, and our in-built Battery Management System allows for up to 32 modules in parallel.

Our BMS can manage and monitor cell information such as battery voltage, current and temperature. Moreover, the BMS can balance cell charging and discharging to help maximise the life of your battery.

Main Parameter	SUNSYNK-L3.0	SUNSYNK-L5.1	SUNSYNK-L5.3
Battery Chemistry	$\text{LiFePO}_4$	$\text{LiFePO}_4$	$\text{LiFePO}_4$
Capacity (Ah)	60	100	104
Scalability	Max.4 pcs in parallel(12kWh)	Max.32 pcs in parallel(163.8kWh)	Max.32 pcs in parallel(170kWh)
Nominal Voltage (V)	51.2	51.2	51.2
Operating Voltage (V)	43.2~57.6	43.2~57.6	43.2~57.6
Energy (kWh)	3.07	5.12	5.32
Usable Energy (kWh) <sup>(1)</sup>	2.76	4.61	4.79
Charge/Discharge Current (A)	Recommended <sup>(2)</sup>	30	50
	Max. <sup>(2)</sup>	60	100
	Peak(2mins,25)	75	150
<b>Other Parameter</b>			
Recommended Depth of Discharge	90%	90%	90%
Dimension (W/H/D, mm)	440*520*145	440*620*135	440*620*135
Weight Approximate (kg)	30	50	46
Master LED indicator	5 LED (SOC 20%~100%)	5 LED (SOC 20%~100%)	5 LED (SOC 20%~100%)
3 LED (working, alarming, protecting)	3 LED (working, alarming, protecting)	3 LED (working, alarming, protecting)	3 LED (working, alarming, protecting)
IP Rating of enclosure	IP65	IP65	IP65
Working Temperature	Charge: $0^{\circ}\text{C}$ ~ $+55^{\circ}\text{C}$ (optional heating $-20^{\circ}\text{C}$ ~ $+55^{\circ}\text{C}$ ) Discharge: $-20^{\circ}\text{C}$ ~ $+55^{\circ}\text{C}$	Charge: $0^{\circ}\text{C}$ ~ $+55^{\circ}\text{C}$ Discharge: $-20^{\circ}\text{C}$ ~ $+55^{\circ}\text{C}$	Charge: $0^{\circ}\text{C}$ ~ $+55^{\circ}\text{C}$ (optional heating $-20^{\circ}\text{C}$ ~ $+55^{\circ}\text{C}$ ) Discharge: $-20^{\circ}\text{C}$ ~ $+55^{\circ}\text{C}$
Storage Temperature	$-20^{\circ}\text{C}$ ~ $+35^{\circ}\text{C}$	$-20^{\circ}\text{C}$ ~ $+35^{\circ}\text{C}$	$-20^{\circ}\text{C}$ ~ $+35^{\circ}\text{C}$
Humidity	5%~95%	5%~95%	5%~95%
Altitude	$\leq 2000\text{m}$	$\leq 2000\text{m}$	$\leq 2000\text{m}$
Cycle Life	$\geq 6000$ ( $25\pm 2^{\circ}\text{C}$ , 90%DOD, 0.5C/0.5C, 70%EOL)	$\geq 6000$ ( $25\pm 2^{\circ}\text{C}$ , 90%DOD, 0.5C/0.5C, 70%EOL)	$\geq 6000$ ( $25\pm 2^{\circ}\text{C}$ , 90%DOD, 0.3C/0.3C, 70%EOL)
Installation	Wall-Mounted (support 19-inch standard cabinet)	Wall-Mounted (support 19-inch standard cabinet)	Wall-Mounted (support 19-inch standard cabinet)
Communication Port	CAN2.0, RS485	CAN2.0, RS485	CAN2.0, RS485
Life Cycle Power During Warranty Period [3]	10MWh@70%EOL	16MWh@70%EOL	16MWh@70%EOL
Certification	IEC62619, CE, UK, CEC, UN38.3	IEC62619, CE, UN38.3	IEC62619, CE, UK, CEC, UN38.3