



## EVADA (Xiamen) Technology Co., Ltd.

**Add:** No. 10, Xinyang Road, Haicang District, Xiamen, Fujian, China  
**Tel:** 0086 592-8105999  
**Fax:** 0086 592-5746808  
**Web:** [www.evadapower.com](http://www.evadapower.com)  
**E-mail:** [sales@evadaups.com](mailto:sales@evadaups.com)

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EXPERT OF

# RESIDENTIAL ESS

# ABOUT EVADA

Devoted to Green Energy Conversion Solutions



EVADA (Xiamen) Technology Co., Ltd. was founded in 1998, for over two decades, the company has been focusing on power conversion and smart energy fields, offering solutions for data center, digital power, energy storage and photovoltaic power. EVADA is a high-tech enterprise that achieves the TOP 5 brands of China UPS and data center, and currently being present in 48+ countries. As part of the general push for the transformation of energy decarbonization, EVADA stays ahead in the field and trying to promote “green” development of energy.



# OUR R&D TEAM

TOP **5**  
UPS brands in China

**25<sup>+</sup>**  
Years' experience in power  
conversion and smart energy field

**32**  
Branches nationwide and  
counting

**3**  
R&D centers

**25,000<sup>+</sup>**  
Square meters workplace

**20<sup>+</sup>**  
Industry standards drafting

**200<sup>+</sup>**  
Researchers

**30<sup>+</sup>**  
Invention patents



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# Evada Residential Solar Inverter & Battery Family







## Benefits of Solar Inverters

- Solar inverters bring several benefits to any solar energy system. Some of the most notable benefits include:
- Increased Efficiency: Solar inverters help to optimize the performance of the solar panels, resulting in increased efficiency and improved energy output.
- Improved Reliability: With a solar inverter in place, the solar energy system is less likely to experience power outages or malfunctions. This can result in improved reliability and peace of mind for the homeowner.
- Increased Safety: Solar inverters help to ensure that the electricity generated by the solar panels is safe for use in homes and businesses.
- Increased Energy Independence: With a solar energy system and a solar inverter, homeowners and businesses can reduce their reliance on the traditional energy grid and become more energy independent.

## Functions of Solar Inverters

Solar inverters perform several key functions, including:

-  Converting DC electricity into AC electricity
-  Maximizing the amount of electricity generated by your panels
-  Monitoring the performance of your solar panels
-  Shutting down your system in the event of a power outage or other safety issue

## Solar Inverter



### eLite Pro Series High Voltage On&Off grid inverter

Hybrid with on-grid mode and off-grid mode  
Lithium/VRLA battery compatible  
Intelligent WIFI monitoring APP  
300VDC with high efficiency



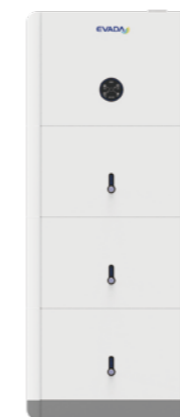
### eLite Pre Series Low Voltage On&Off grid inverter

Available Battery: Lead Acid, Lithium  
Output Voltage: 220Vac/230Vac  
Output Frequency: 50Hz/60Hz±0.2%



### eLite series Low voltage off grid inverter

Hybrid input: solar and utility  
Lithium/VRLA battery compatible  
Wifi monitoring  
parallel operation up to 9 units



### eLite Pre Series Low Voltage On&Off Grid All-in-one System (Inverter+Battery)

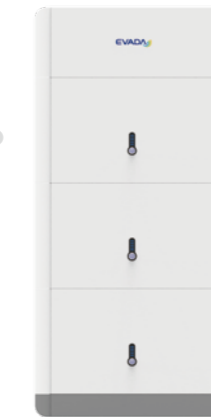
eLite Pre Series All-in-one solar inverter  
On-grid and Off-grid mode switchable  
MPPT voltage range: 90-550v  
2 mppt  
output power: 3kw~6kw  
Cell type: LiFePO4(LFP)

## Battery



### High Voltage Stackable Battery

Voltage Range: 179.2~681.6v  
Battery Type: lithium iron phosphate  
Installation type: Stackable  
Single Battery Module: 5.12KWH, 102.4v  
IP Level: IP66



### Low Voltage Stackable Battery

Battery Type: lithium iron phosphate  
Installation type: Stackable and floor mounting  
Single Battery Module: 5KWH  
nominal voltage: 51.2v  
Max quantity of battery module: 6  
IP Level: IP66



### Power Wall Battery Pack

Available capacity:  
2.56kwh, 5.12kwh, 10.34kwh, 14.4kwh  
6000 cycles at 80% DOD  
1C/1C continual charge and discharge  
Low voltage safety connections  
Max.16 modules parallel



### Rack mount battery pack

Low voltage rack mount battery  
Cell type: LFP  
Single module: 5kwh  
Designed life time: 10-15 years  
LCD display

# eLite Pro Series Single Phase High Voltage On&Off grid Energy Storage Solar Inverter



**MODEL**  
EHS-3000-BH EHS-4600-BH  
EHS-3700-BH EHS-5000-BH

## Product Description

eLite Pro Series works with solar panels and batteries to form an energy storage system. It can be used to optimize self-consumption and store the excess power in the battery. Multiple working modes to meet users' needs, featuring backup mode to ensure the stable power supply when utility failed.

## Features



### High Efficiency

2x DC oversizing, dual MPPT, with a maximum conversion efficiency of 99.9%. Maximum charging/discharging efficiency of 97.8%.



### Cost-Effective

Integrated design of charge control and inverter. Compatible with both lithium-ion and lead-acid batteries. Low startup voltage extends the inverter's working time.



### Safe and Reliable

Fanless integrated cooling technology, noise-free, and maintenance-free. IP65 waterproof and dustproof rating. AC/DC surge protection device. PV and battery reverse polarity protection.



### Comprehensive Functionality

Anti-islanding protection, anti-reverse flow, high and low voltage ride-through, active/reactive power compensation. Advanced battery management technology allows flexible charge/discharge time settings, ensuring battery lifespan. WiFi smart monitoring function with a mobile app to view various data, supporting remote monitoring and remote upgrades. Multiple operating modes to meet different usage scenarios.

## Working Modes



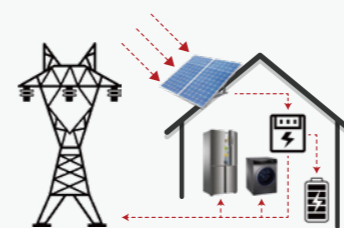
### Self-consumption Mode

#### When solar power is sufficient:

The inverter always prioritizes the solar production to power loads and then uses the excess solar production to recharge the battery. If there is still more energy being produced, it will flow into the utility grid.

#### When solar power is insufficient:

The battery starts to discharge and supply loads until it's empty then the grid will start to power the loads.



### Force Time Mode

#### When charging:

The inverter prioritizes the solar production to recharge the battery. User need to configure the start time and the end time when using the AC CHG function otherwise the battery can only be recharged by the solar power.

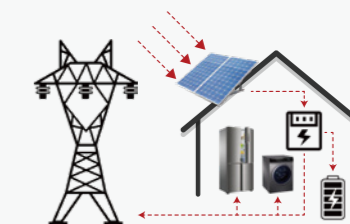
#### When discharging:

Allows to configure the start time, the end time and the SOC of the battery, and battery will discharge to the grid.



### Feed In Mode

When the solar array is producing more energy than the AC loads has consumed, the inverter is able to feed excess power produced back in the utility grid.



### Back Up Mode

The inverter will force battery charging from PV power and grid power within the setting time and the battery will not discharge when connected with the grid.



### Off-Grid Mode

Using excess solar to charge the battery and power the loads without a grid-connection.



MODEL	EHS-3000-BH	EHS-3700-BH	EHS-4600-BH	EHS-5000-BH
<b>INPUT (DC)</b>				
Max. PV array Power (Wp)	4000	5000	6000	6000
Max. DC voltage (V)	600	600	600	600
Nominal DC operating voltage(V)	360	360	360	360
Max. input current (input A/input B) (A)	10/10	10/10	10/10	10/10
Max. short circuit current (input A/input B)	14/14	14/14	14/14	14/14
MPPT voltage range	125-550	125-550	125-550	125-550
Start operating voltage	150	150	150	150
No.of MPP trackers	2	2	2	2
String per MPP tracker	1	1	1	1
<b>INPUT (AC)</b>				
Max. apparent AC power (VA)	3000	3700	4600	5000
Max. AC current (A)	14.4	16	21	21.7
Nominal grid voltage (AC voltage range)	220/230/240(180-270)	220/230/240(180-270)	220/230/240(180-270)	220/230/240(180-270)
Nominal grid frequency/range (Hz)	50/60	50/60	50/60	50/60
<b>OUTPUT (AC)</b>				
Nominal AC power (VA)	3000	3700	4600	5000
Max. apparent AC power (VA)	3000	3700	4600	5000
Nominal grid voltage (AC voltage range) (A)	220/230/240(180-270)	220/230/240(180-270)	220/230/240(180-270)	220/230/240(180-270)
Nominal grid frequency/range (Hz)	50/60	50/60	50/60	50/60
Nominal AC current (A)	13	16	20	21.7
Displacement power factor	0.8 leading 0.8 lagging			
THDi, rated power (%)	< 2			
<b>OUTPUT DC (BATTERY)</b>				
Battery voltage range (V)	85-400			
Recommended battery voltage(V)	300			
Max. continuous charge/discharge current (A)	20			
Communication interfaces	CAN/RS485			
Reverse connect protection	Yes			
<b>OFF-GRID OUTPUT (WITH BATTERY)</b>				
MAX. continuous apparent power (VA)	4000	4000	5000	5000
EPS rated voltage [V], Frequency (Hz)	230, 50/60	230, 50/60	230, 50/60	230, 50/60
EPS MAX. continuous current(A)	21.7	21.7	26	26
EPS peak apparent power (VA)Duration(S)	6000   10	6000   10	8000   10	8000   10
Changeover time (ms)	<20 for I version / <500 for E version			
THDv, linear Load (%)	< 2			

MODEL	EHS-3000-BH	EHS-3700-BH	EHS-4600-BH	EHS-5000-BH
<b>EFFICIENCY</b>				
MPPT efficiency (%)	99.9			
Euro efficiency (%)	97			
Max. efficiency (%)	97.8			
Battery charge/discharge efficiency (%)	98.5 (PV-BAT) 97.0 (BAT-AC)			
<b>POWER CONSUMPTION</b>				
Standby consumption (Night) (W)	<15 for hot standby, <3 for cold standby			
<b>STANDARD</b>				
Safety	-			
EMC	-			
Certification	CE,CEI021			
<b>ENVIROMENTAL LIMITS</b>				
Protection class	IP65			
Operating temperature range (°C)	-20~+60 (derating at +45)			
Max operation altitude (M)	2000			
Humidity (%)	4~100(Condensing)			
Storage temperature (°C)	-20~+60			
Typical noise emission (dB)	40			
<b>DIMENSION AND WEIGHT</b>				
Dimensions (WxHxD) (mm)	422*464*185			
Weight(kg)	18kg			
Cooling concept	Natural			
Topology	Non-isolated			
Communication interfaces	Ethernet/Meter/Pocket WiFi (optional)/Pocket LAN (optional)/Pocket GPRS (optional)/DRM/USB/ISO alarm/CT			
LCD display	Backlight 20*4 character			
Standard warranty (years)	5 Years			

# eLite Pre Series Single Phase Low Voltage On&Off grid Energy Storage Solar Inverter



**MODEL**  
EHS-3000-BL EHS-4600-BL  
EHS-3600-BL EHS-5000-BL  
EHS-4000-BL EHS-6000-BL

## Product Description

This hybrid inverter series support photovoltaic power conversion and energy storage simultaneously. It benefits us from getting rid of high electricity fee and unstable grid power supply, and getting income from selling power to the grid. It could remotely achieve energy management and system upgraded through data communication (WIFI/GPRS/Bluetooth), cloud platform and mobile APP. It is applicable for residential energy management in different scenarios such as house, cottage, villa, apartment, etc.

## Features



Six working modes applicable to various scenarios.



Support three-phase output with 3 units.



Support multiple parallel units, scalable to 48KW maximumly.



AI cloud platform efficiently enable device management and monitoring.



High level protection with IP66.



Remote upgrade and fault diagnosis hence free from on-site service.



Equipped with UPS function for seamless switching within 10ms,



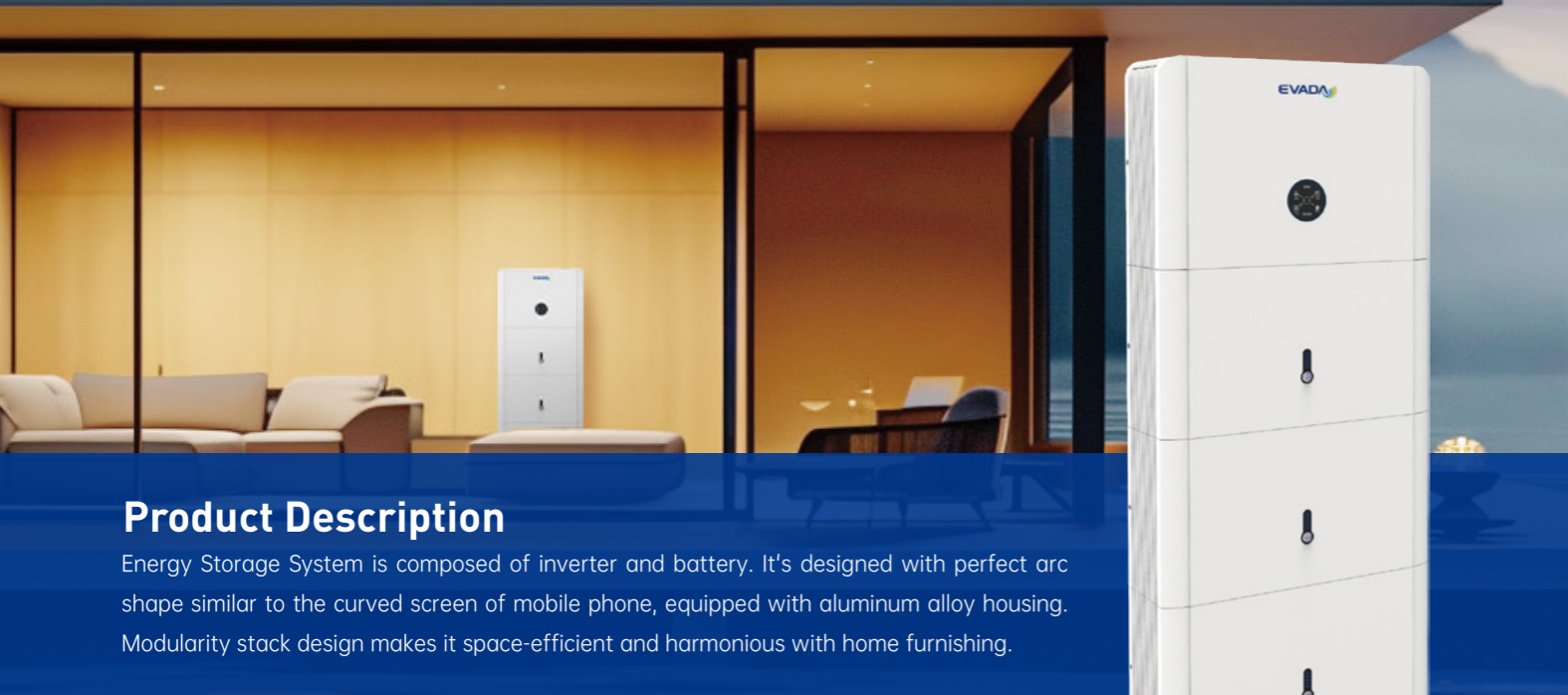
CE / grid connection, etc. can comply with certification requirement of Europe.

## Specification

MODEL	EHS-3000-BL	EHS-3600-BL	EHS-4000-BL	EHS-4600-BL	EHS-5000-BL	EHS-6000-BL
<b>DC INPUT (PV)</b>						
Maximum input power	8000W	8000W	9000W	9000W	9000W	9000W
Maximum input voltage				580V		
Mppt voltage range				90-500V		
Maximum current				16A		
Short-circuit current				20A		
Starting voltage				120V		
Quantity of MPPT				2		
<b>BATTERY PARAMETER</b>						
Battery type	Leadacid,lithium battery					
Rated voltage	51.2V					
Input voltage range	40-60V					
Rated charging/discharging power	5000w					
Max. charging/discharging current	100A					
Galvanic isolation	High-frequency isolation					
Battery charging wake-up	Support					
Battery communication wake-up	Support					
Charging method	Constant current, constant voltage, floating					
<b>ON GRID</b>						
Rated output power	3000W	3680W	4000W	4600W	5000W	6000W
Output voltage range				180~270VAC		
Output frequency				50/60HZ		
Rated output current	13A	16A	17.4A	20A	21.7A	26A
Adjustable power grid				1(0.8leading--0.8lagging)		
Grid type				L,N,230V		
Current distortion rate	Full load<3%					
Maximum input power	8000W	8680W	9000W	9600W	10000W	11000W
Maximum input current	34.8A	37.7A	39.1A	41.7A	43.5A	47.8A
<b>OFF GRID</b>						
Rated output power	3000W	3680W	4000W	4600W	5000W	6000W
Rated output voltage				230V		
Output current	13.6A	16.7A	18.2A	20.9A	22.7A	22.7A
Out frequency				50Hz/60Hz		
Output voltage range				180~270VAC		
Voltage distortion rate	Full load<3%					
<b>EFFICIENCY</b>						
Maximum efficiency	97.60%					
European efficiency	97.30%					
Max. efficiency on battery side and AC side	94.70%					
Mppt efficiency	99.90%					
<b>GENERAL SPECIFICATION</b>						
Standby power	<10W					
Dimension(width*height*depth)	510*450*188					
Weight	<27Kg					
Installation type	Wall mounting					
Operating temperature range	-25~60°C					
Relative humidity range	0~95%					
Maximum operating altitudw	4000M					
Noise	<25dB					
Cooling	Natural convection					
IP rating	IP66					
Communication interface	Battery RS485, CAN,electricity SR845, WIFI, GPRS,Bluetooth					
Display	LCD					
Max. parallel connection	8					
Isolation method	High-frequency isolation					
Warranty period	5 Years / 10 Years (optional)					
<b>CERTIFICATES</b>						
IEC 62109-1:2010, IEC 62109-2:2011, EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, CEI0-21:2022, G98/1-7, G99 1-9:2022, type A, G100-1-2, VDE-AR-N 4105						



# eLite Pre Series Single Phase Low Voltage Energy Storage All-in-one Solar System (Solar Inverter+Battery)



## Product Description

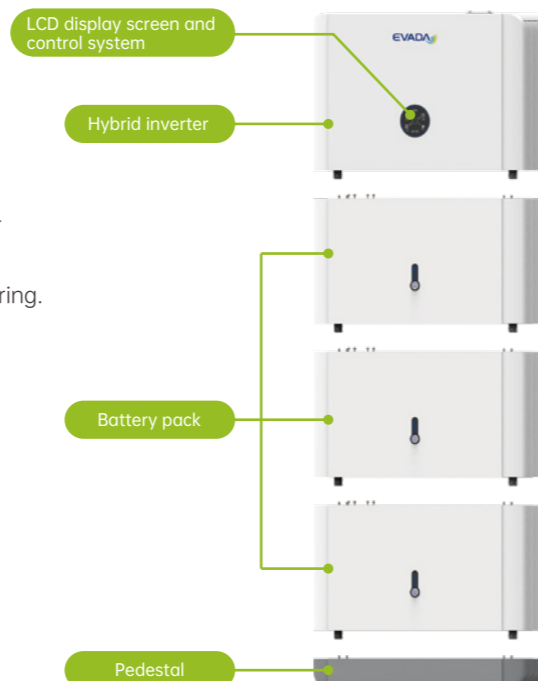
Energy Storage System is composed of inverter and battery. It's designed with perfect arc shape similar to the curved screen of mobile phone, equipped with aluminum alloy housing. Modularity stack design makes it space-efficient and harmonious with home furnishing.



**MODEL**  
EHS-3000-S EHS-4000-S EHS-5000-S  
EHS-3600-S EHS-4600-S EHS-6000-S

## Product Highlights

- Six working modes applicable to various scenarios.
- Equipped with UPS function for seamless switching within 10ms.
- Remote upgrade and fault diagnosis hence free from on-site service.
- AI cloud platform efficiently enable device management and monitoring.
- Safer and longer life time design with LFP cell.
- Safer with built-in automatic fire extinguishing unit.
- Modular and stackable design, easy to transport and install.
- CE / grid connection, etc, can comply with certification requirement of Europe.



## Specification



MODEL	EHS-3000-S	EHS-3600-S	EHS-4000-S	EHS-4600-S	EHS-5000-S	EHS-6000-S
<b>DC INPUT (PV)</b>						
Maximum input power	8000W	8000W	9000W	9000W	9000W	9000W
Maximum input voltage				580V		
MPPT voltage range				90-550V		
Maximum current				16A		
Short-circuit current				20A		
Starting voltage				120V		
Quantity of MPPT				2		
<b>ON GRID</b>						
Rated output power	3000W	3680W	4000W	4600W	5000W	6000W
Output voltage range				180-270VAC		
Output frequency				50/60HZ		
Rated output current	13A	16A	17.4A	20A	21.7A	26A
Adjustable power factor				1(0.8leading--0.8lagging)		
Grid type				L,N,230V		
Current distortion rate				Full load<3%		
Maximum input power	8000W	8680W	9000W	9600W	10000W	11000W
Maximum input current	34.8A	37.7A	39.1A	41.7A	43.5A	47.8A
<b>OFF GRID</b>						
Rated output power	3000W	3680W	4000W	4600W	5000W	5000W
Rated output voltage				230V		
Output current	13.6A	16.7A	18.2A	20.9A	22.7A	22.7A
Output frequency				50Hz/60Hz		
Output voltage range				180-270VAC		
Voltage distortion rate				Full load<3%		
<b>EFFICIENCY</b>						
Maximum efficiency				97.60%		
European efficiency				97.30%		
Max. efficiency on battery side and AC side				94.70%		
Mppt efficiency				99.90%		
<b>CERTIFICATE</b>						
IEC 62109-1:2010, IEC 62109-2:2011, EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, CEI0-21:2022, G98/1-7, G99 1-9:2022, type A, G100:1-2, VDE-AR-N 4105						
<b>BATTERY PARAMETER</b>						
Battery model	EHS-5H-P	EHS-10H-P	EHS-15H-P	EHS-20H-P		
Cell type	LifePO4(LFP)					
Max.quantity of battery modules	6					
Quantity of battery modules	1	2	3	4		
Nominal capacity (KWh)	5.12	10.24	15.36	20.48		
Rated charging/discharging current	50A	100A	100A	100A		
Rated voltage	51.2V					
Rated charging/discharging power	2500W	5000W	5000W	5000W		
Charging method	Constant current, constant voltage, floating					
Galvanic isolation	High-frequency isolation					
Certificates	IEC62619, IEC63056, ENIEC61000-6-1, IEC61000-6-3, EN EC62040-1,EN EC62477-1, IEC60730-1 Annex H, EC60529 P66, UN38.3, MSDS, RoHS(2011 /65/EU +2015/863), WEEE(2012/19/EU), ISTA					
<b>GERNERAL SPECIFICATION</b>						
Dimension (width*height*depth)	660*(530 + 360*X)*210					
Weight	30+47*X					
Installation type	Floor mounting					
Operating temperature range	-25~50°C					
Relative humidity range	0~95%					
Maximumu operating altitude	4000M					
Noise	<25dB					
Cooling	Natural convection					
IP rating for battery	IP65					
IP rating for inverter	IP66					
Communication interface	Electricity meter SR845, CAN,IWIF, GPRS,Bluetooth					
Warranty period	5 Years / 10 Years (optional)					

# eLite Series Single Phase Low Voltage Energy Storage Off-grid Hybrid Solar Inverter



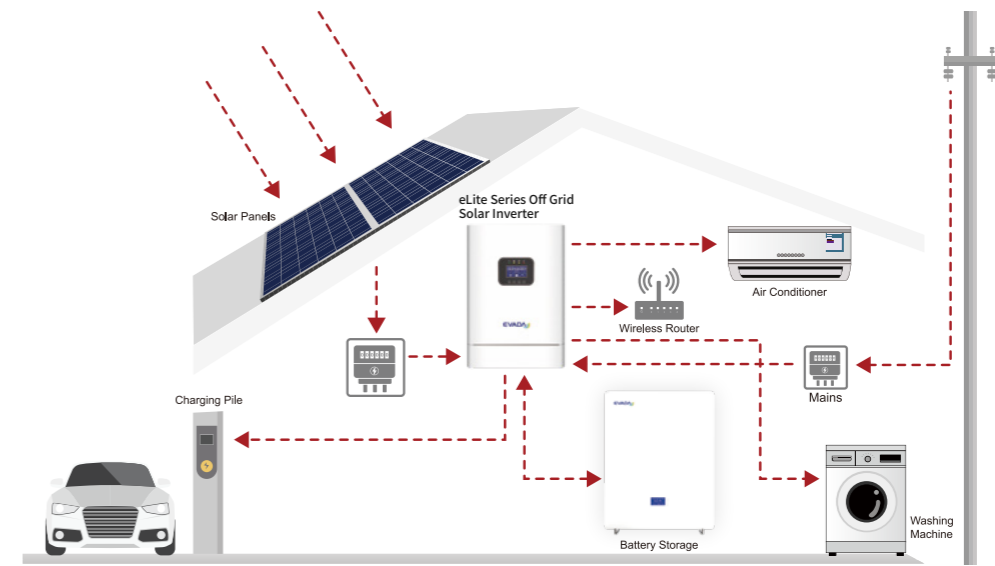
**MODEL**  
EVS3024L EVS3024H EVS5048H

## Product Description

The 3-5kW Single-phase off grid inverter is an all-in-one system for supplying solar power at home. It can be flexibly configured to single-phase or three-phase and has multiple system integration features. It's a combination of pure sine wave solar inverter and integrated MPPT charger, making it the most cost-effective option for home and office use.

## Product Highlights

- Pure sine wave output to accommodate various types of loads.
- Built-in MPPT charge controller.
- Configurable for different types of batteries via LCD screen; Default setting for AGM (lead-acid battery), options available for FLD (flooded battery), LIB (lithium battery), and CUS (custom settings).
- Multi-mode settings via LCD screen to select the priority of solar, mains, and battery power.
- Wide range of mains input voltage selectable via LCD (APP/UPS) to meet different power requirements.
- Protection features including over-discharge, overload, over-temperature, and short-circuit protection.
- Mains auto-start function: when the battery is exhausted and the inverter shuts down, it will automatically restart when solar or mains power is restored.
- Parallel boards for three-unit parallel expansion or three-phase input/output can be added. (Optional) (Not supported by 3K models).
- WiFi smart monitoring function, supporting data viewing via mobile app (Optional).



## Working Modes



### Battery Mode

Solar energy provides power to the loads as first priority. If there is insufficient solar power available, battery will be used to power the loads. Utility is only used when solar is insufficient and the battery drops to low SoC.



### PV Mode

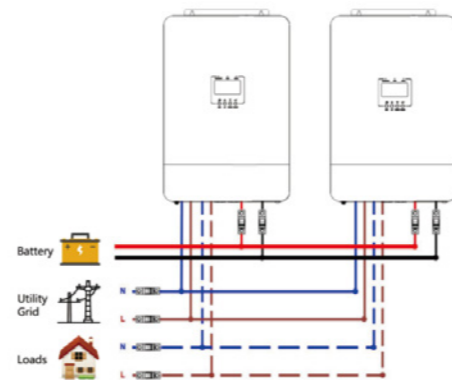
Solar energy provides power to the loads as first priority. The photovoltaic directly supplies power to the loads while charging the battery. Once the solar power is insufficient, the grid will power the load.



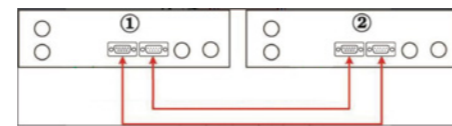
### Utility Mode

Utility provides power to the loads as first priority. The Utility and solar will both charge the battery. When there is no utility available, solar and battery will be used to power the loads.

Single-Phase Parallel System

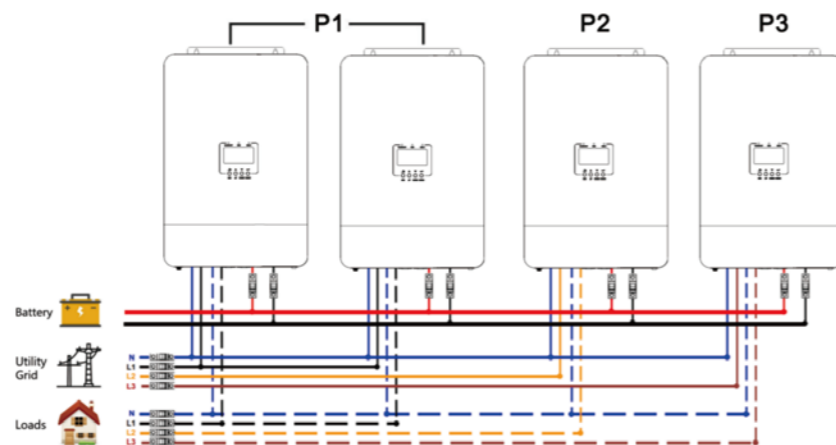


System Connection

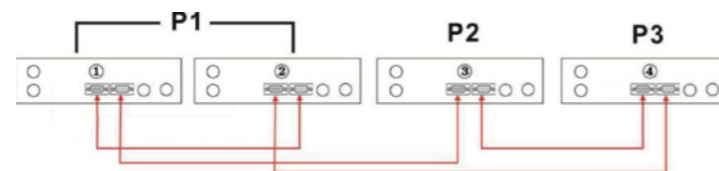


Communication Connection

Three-Phase Parallel System



System Connection



Communication Connection

MODEL	EVS3024L	EVS3024H	EVS5048H
Rated Power	3000W	3000W	5000W
Peak Power	6000VA	6000VA	10000VA
<b>INPUT</b>			
AC Input	170~280V/40-70Hz (For computers) ;90~280V /40-70Hz(For household appliances)		
<b>OUTPUT</b>			
Output Voltage	208VAC/220VAC/230VAC/240VAC		
Transfer Time	10 ms (For computers); 20 ms (For household appliances)		
Overload (Battery Mode)	1min@ 102 %~ 110 % Load ; 1 0 s@ 110 %~ 130 % Load ; 3s@ 130 % ~ 150 % Load		
Efficiency(Peak) (Battery Mode)	> 94 %		
Power Factor	1		
THD	≤3% (Linear load rate), ≤5% (Non-linear load rate)		
Waveform	Pure sine wave		
<b>BATTERY&amp;CHARGER</b>			
Battery Voltage	24VDC		48VDC
Battery Type	Lead Acid	Lead Acid /Lithium Battery	
Charging	MPPT		
Maximum PV Power Input	1500W	4000W	6000W
Maximum PV Voltage Input	145VDC	500VDC	500VDC
MPPT Tracking Range	30~115VDC	120~430VDC	120~430VDC
Charging Current	10-120A (Adjustable)		2-80A (Adjustable)
Maximum Mains Charging Current	60A	80A	80A
Maximum PV Charging Current	60A	120A	80A
<b>DISPLAY&amp;INTERFACE</b>			
LCD Display	Working modes/ Loads/ Input/ Output		
Communication Interface	RS232/ Dry contact/ USB/ GPRS&WIFI/RS485 optional		
Parallel Interface (Optional)	/		Parallel card
<b>DISPLAY&amp;INTERFACE</b>			
Operating Temperature & Humidity	0~ 50C ; 20 %~ 95 % (Non-condensing)		
Noise	≤50dB		
Storage Temperature	- 15 ~ 60C		
Cooling Method	Fans		
Ingress Protection Rating	IP20		
Altitude	1000 Meters no derate. >1000 Meters derating, and with maximum altitude 4000 meters		
<b>PHYSICAL</b>			
Dims. L/W/H (mm)	445*300*124mm		
Net Weight (kgs)	9		
Gross weight (kgs)	11		
<b>PHYSICAL</b>			
Standards & Certifications	EN IEC 61000-6-3:2021 , EN IEC 61000-6-1:2019 , EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021 , EN 62109-1:2010 , EN 62109 -2:2011		

# Smart Application For Evada Solar Inverters Monitoring & Controlling & Managing

## Product Description

The WFBLE.RTU.Bar-01 wireless accessory product is used to expand the Wi-Fi network data transmission channel of the device. It is connected to the device through the USB interface (communication interface RS232). It has the advantages of easy installation, strong anti-interference ability, and no need to configure power supply and antenna. It also supports remote control, remote debugging, remote upgrade and other functions of the device. With the help of a router, it can access the cloud server. It can provide users with a low-cost, visual, and remotely operated complete monitoring solution.

## Product Highlights



Ease of use

- Simple installation:** USB interface, plug and play;
- Simple replacement:** external plug-in type, no need to disassemble the device, safe and fast;
- Simple maintenance:** remote debugging, remote firmware upgrade;
- Simple use:** first power on, second networking, third registration;
- Convenient power supply:** directly draw power from the device port;
- Simple troubleshooting:** four LED lights indicate the operating status, intuitive understanding of the working status.



Stability

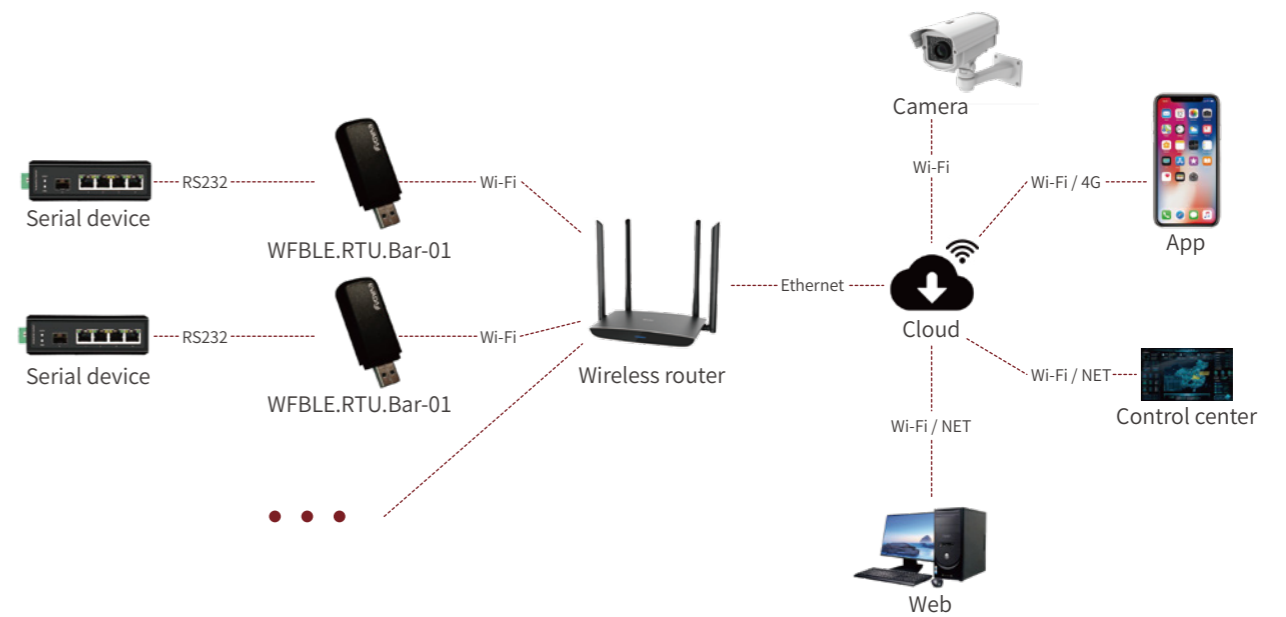
- Device selection:** industrial-grade components, can work for a long time in -35°C ~ +85°C;
- Protection measures:** software watchdog + hardware watchdog dual protection;
- Stability mechanism:** heartbeat detection, network retry, automatic retry when the device loses connection;
- Data security:** private protocol, data verification.



Flexibility

- Protocol adaptation:** supports automatic identification of multiple communication protocols;
- On-site parameter configuration:** with the APP, you can view and configure device parameters on-site;
- Remote monitoring:** with the APP, remote monitoring is achieved.

## Monitoring System Topology

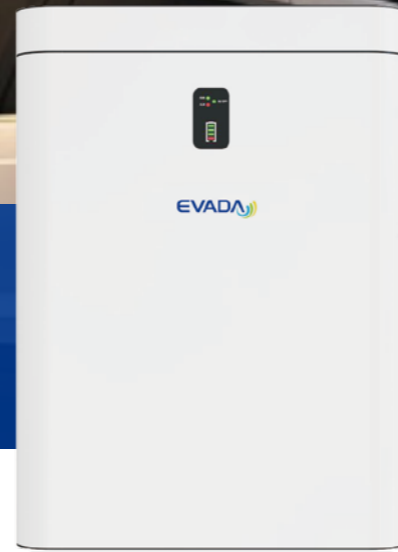


Model	WFBLE RTU Bar-01	
Hardware	Dimensions(D/W/H)	64*25.8*12mm
	Weight	11±3g
	Protection class	IP21
	Rated voltage	DC5V±5%
	Max.current	500mA (DC5V)
	Operating temperature	-35°C~+85°C
	Storage temperature	-40°C~+90°C
	Host interface	USB
	Input communication interface	RS232
	Output communication interface	Wi-Fi
Wireless	Transmission rate	1200bps-115200bps (9600bps by default)
	Dongle	Automatic logout in 30s
	Bluetooth	BLE 5.0, 10m
	Working frequency	2.4GHz
	Standard	802.11b/g/n
Software	Bluetooth	BLE 5.0
	Antenna	Built-in PCB
	Working mode	Transparent transmission
	Wireless working mode	STA/AP/AP+STA
Others	Protocol	WEP/WPA-PSK/WPA2-PSK
	Configuration setting	Remote server, bluetooth, AT command
	Certification	CE, RoHS Compliant

# Low Voltage (51.2v) Wall Mount Lithium Battery With BMS Inbuilt

## Product Description

All battery cells undergo intelligent sorting, ensuring accurate and reliable voltage and current; a specialized BMS board is employed to safeguard the battery pack. The battery exhibits high energy density, long lifespan, and is characterized by safety, reliability, and suitability for a wide temperature range.



MODEL  
BOX26 BOX26 PLUS BOX26 MAX

## Product Highlights



High-quality LFP battery



Independent BMS for battery management



Support RS485/CAN



Supports parallel connection of multiple battery packs



Wall-mounted design for easy installation



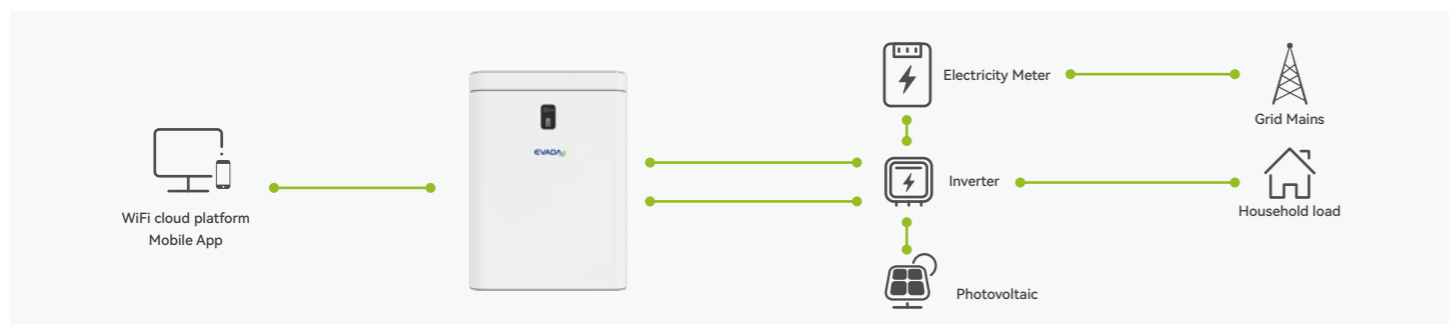
6000 cycle lifetime



Wide temperature range: -20°C~60°C



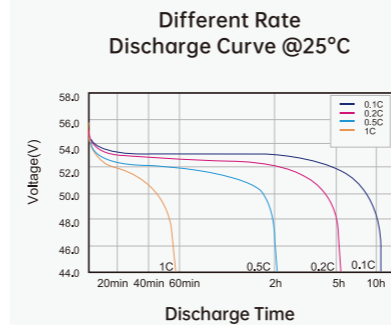
Versatile application for home, store, and office use



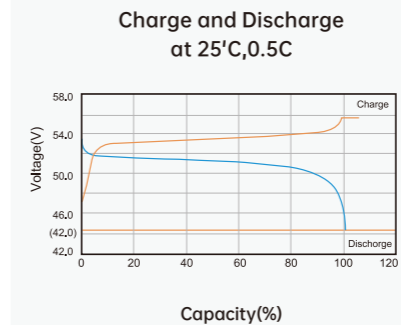
## Specification

MODEL	BOX26	BOX26 PLUS	BOX26 MAX
Nominal Energy	5.12kWh	10.24kWh	14.4kWh
Nominal Voltage	51.2V	51.2V	51.2V
Nominal Capacity	100Ah	200Ah	280Ah
Cell type	LFP	LFP	LFP
Standard Charge Voltage	56V	56V	56V
Max Discharge Current	100A	150A	200A
Discharge Cut-Off Voltage	40V	40V	40V
Parallels Function	Support 16 Units In Parallels		
Communication Interface	RS485, RS232, CAN (Optional)		
Cycle Life *	>6000 Cycles (80%DOD)		
Charge Temperature range	0~65°C		
Discharge Temperature range	-20~65°C		
Certification	UL/EMC/CE/MSDS / UN38.3		
Dimensions	480*660*150mm	480*660*240mm	490*830*240mm
Weight	50Kg	90Kg	120Kg
Installation method	BOX26, BOX26 PLUS wall mount MAX Floor standing		
Warranty	5 Years(under warranty terms)		
WiFi Function	Optional		

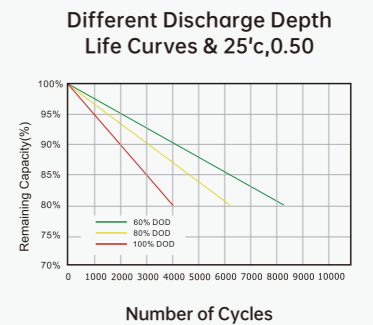
### Different Current/ Temperature Discharge Curves



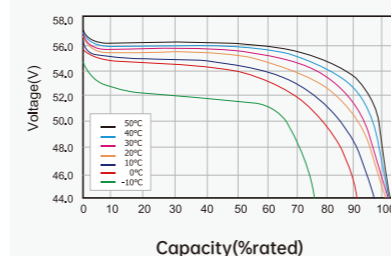
### Charging and Discharge Curve



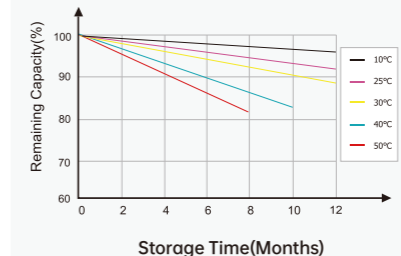
### Cycle Life Curve



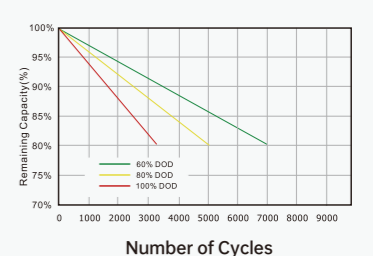
### Different Temperature Discharge Curve @0.5C



### Different Temperature Self Discharge Curve



### Different Discharge Depth Life Curves & 40°C, 0.5C



# Low Voltage (51.2v) Rack Mount Lithium Battery With BMS Inbuilt

## Product Description

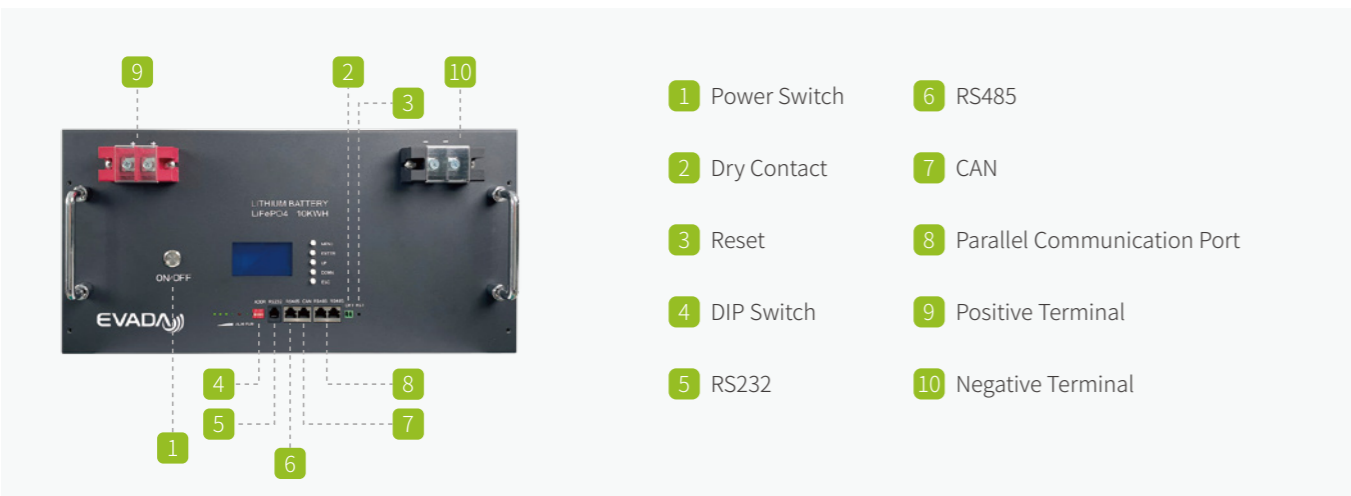
Automotive Grade Cells-16 cell configuration; Integrated CAN bus RS485 BMS LCD display shows battery information; Pre-configured with optimal parameters; No other LiFePO4 battery offer this functionality, longevity and warranty at our price; Warranted for daily cycling. Optional Smart Heating Function Can work -40°C Degree



**MODEL**  
ESS-2560 ESS-5120 ESS-10240

## Product Highlights

- High-quality LFP battery
- Rack-mounted design for easy installation
- Wide temperature range: -20°C~60°C
- Independent BMS for battery management
- 6000 cycle lifetime
- Versatile application for home, store, and office use
- Support RS485/CAN
- Supports parallel connection of multiple battery packs



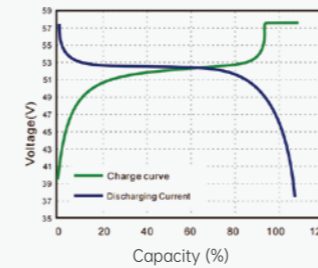
## Specification



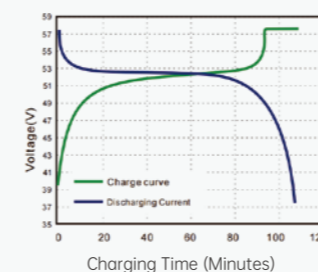
MODEL	ESS-2560	ESS-5120	ESS-10240
Nominal voltage		51.2V	
Nominal capacity	50Ah	100Ah	200Ah
Nominal capacity @ 25°C	50Ah	100Ah	200Ah
Nominal capacity @ 0°C	40Ah	80Ah	160Ah
Nominal capacity @ -20°C	25Ah	50Ah	100Ah
Cell type	LiFePO4		
Standard charge voltage	58.4V (configurable)		
Max. charge current	50A	100A	80A
Discharge cut-off voltage	40V (configurable)		
Max. discharge current	50A	100A	80A
Display	LCD (optional)		
Communication	RS485, RS232, CAN (optional)		
Cycle life	> 6000 Cycles (80%DOD)		
Cycle life @100% DOD*	> 4000 Cycles		
Cycle life @80% DOD*	> 6000 Cycles		
Cycle life @50% DOD*	> 10,000 Cycles		
Charge temperature range	0~65°C		
Discharge temperature range	-20~65°C		
Storage Temperature	-25~45°C		
Humidity	Max. 95% (Non-condensing)		
Expansion	Support 10 units in parallels	Support 10 units in parallels	Support 15 units in parallels
Dimensions (mm)	442X400X133	440*440*132(3U)	442X520X320
Weight (kg)	26	47.5	82
Installation method	Rack mounted		

### Charging and Discharge Curve

Charge and Discharge Curve @0.5C 25°C

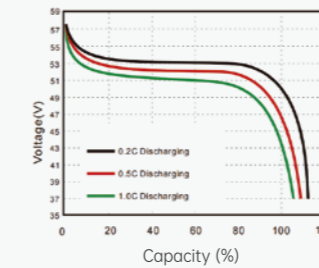


Charging Characteristics @0.5C 25°C

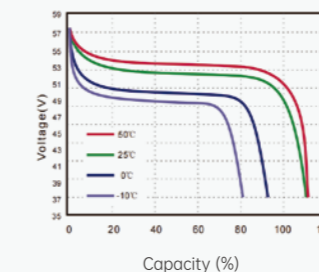


### Different Current/Temperature Discharge Curves

Different Rate Discharge Curve @25°C

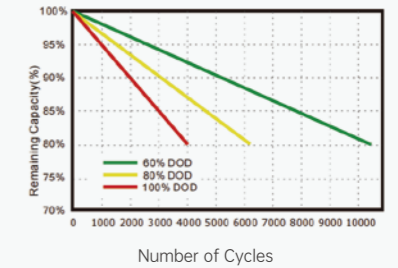


Different Temperature Discharge Curve @0.5C

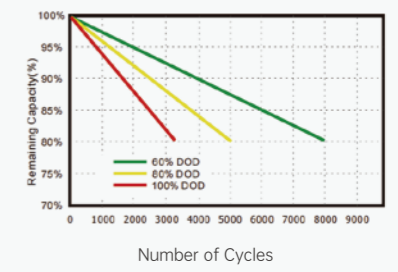


### Cycle Life Curve

Different discharge depth life curves &25°C 0.50



Different discharge depth life curves &40°C 0.5C



# High Voltage Stackable Lithium Battery With BMS Inbuilt

## Product Description

The eLith Block series is an advanced high-tech energy storage battery featuring integrated HVC box and BMS unit. Equipped with a robust 4-tier protection strategy, the system supports parallel use of 2-6 battery modules. Its stack-based installation streamlines setup and operations, making it ideal for applications such as household emergency backup during power disruptions, peak and off-peak price arbitrage, self-generation and consumption, and grid dispatching subsidies.



## Product Highlights

- Homely style, elegant and beautiful
- Adopting LFP cells, safe and stable
- Single battery 5.12kWh, it can be expanded to 30.72kWh
- With high voltage stack-based design, the backup energy can be expanded flexibly
- Adopting LFP cells, safe and stable

**MODEL**  
 ES-10-H ES-15-H ES-20-H  
 ES-25-H ES-30-H

## Application

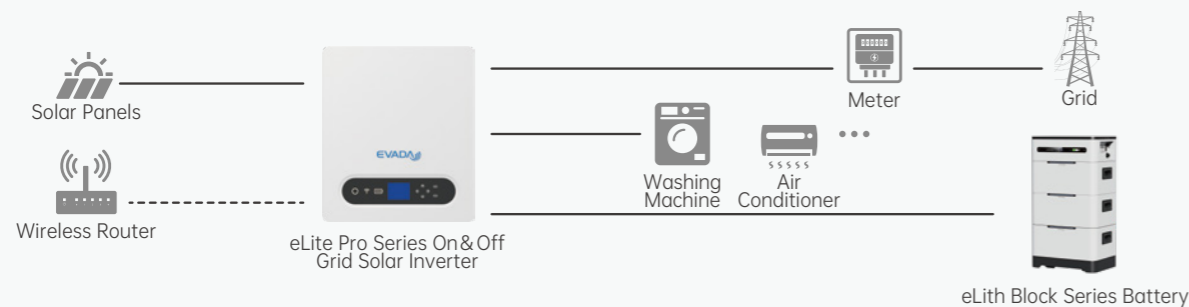
- Self-generation for own use
- Grid dispatch subsidy
- Smart home energy management
- Peak-valley electricity price arbitrage
- Power reserve for power consumption



## Specification

MODEL	ES-10-H	ES-15-H	ES-20-H	ES-25-H	ES-30-H
Stacking capacity (KWh)	10.24	15.36	20.48	25.6	30.72
Number of batteries in series	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs
Rated voltage (V)	204.8V	307.2V	409.6V	512V	614.4V
Voltage range (V)	179.2 ~ 227.2	268.8 ~ 340.8	358.4 ~ 454.4	448 ~ 568	537.6 ~ 681.6
Rated capacity (Ah)	50				
Continuous charge current (A)	12.5A (recommended)/25A (max)				
Continuous discharge current (A)	25A (recommended)/50A (max)				
Communication	RS485/CAN				
Protection	Over/under voltage, over/low temperature, over current, short circuit				
Size (mm)	550*370*737	550*370*973	550*370*1209	550*370*1445	550*370*1682
Weight (kg)	119	169	220	270	321
Protection class	IP20				
Installation condition	Indoor installation				
Operating temperature range	-10°C ~ 55°C				
Optimum operating temperature range	20°C ~ 30°C				
Storage temperature	-30°C ~ 60°C				
Humidity	5% ~ 95%				
Altitude	≤2000m				
Cooling method	Natural cooling				

## eLith Block Series Battery Storage System



# Low Voltage Stackable Lithium Battery With BMS Inbuilt



MODEL  
EHS-5H-P EHS-15H-P  
EHS-10H-P EHS-20H-P

## Product Description

This is 51.2V low-voltage battery pack, with BMS in each module, with cell lithium iron phosphate. It has perfect are shape similar to the curved screen of mobile phone, equipped with aluminum alloy housing and with IP65 rating. 5 KWh per module, can be flexibly scalable when necessary.

## Product Highlights



Safer and longer life time design with LFP cell.



Modular and stackable design, easy to transport and install.



Safer with built-in automatic fire extinguishing unit.



Support remote maintenance and software upgrade.

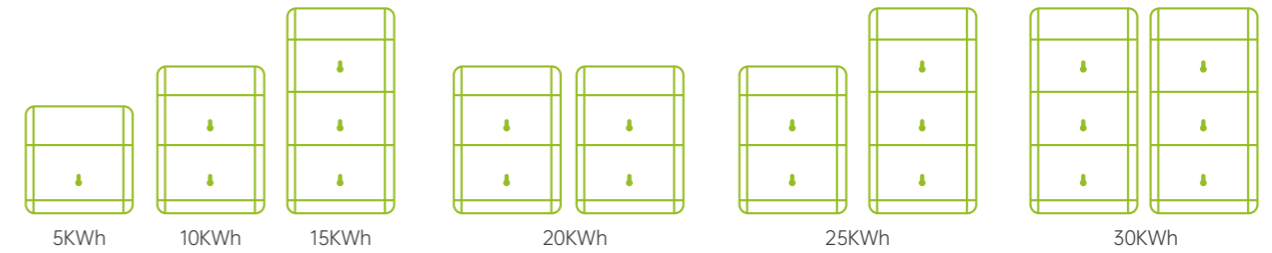


Safer with hidden wiring design.



Scalable to maximum 30.72KWh.

## Product Diagram



## Specification

MODEL	EHS-5H-P	EHS-10H-P	EHS-15H-P	EHS-20H-P
<b>TECHNICAL REFERENCE</b>				
Nominal capacity (KWh)	5.12	10.24	15.36	20.48
Cell type	LifePO4(LFP)			
Rated voltage	51.2V			
Quantity of battery modules	1	2	3	4
Max. quantity of battery modules	6			
Rated charging current	50A			100A
Rated discharging current	50A			100A
Rated charging/discharging power	2500W			5000W
<b>GENERAL SPECIFICATION</b>				
Communication	RS485, CAN			
Ip rating	IP65			
Weight	54	101	148	195
Operating temperature	-20°C~ +50°C (discharging)			
Relative humidity	5~95%			
Display	LED			
Dimension(width*height*depth)	660x680x210	660x1040x210	660x1400x210	660x1760x210
Installation type	Floor mounting			
Maximum operating altitude	4000M			
Warranty Period	5 Years / 10 Years (optional)			
Certificates	IEC62619, IEC63056, ENI EC61 000-6-1, IEC61000-6-3, EN EC62040-1, EN EC62477-1, IEC60730-1 Annex H, EC60529 P66, UN38.3, MSDS, RoH 5(2011 /65/EU + 201 5/863), WEEE(2012/19/EU), ISTA			



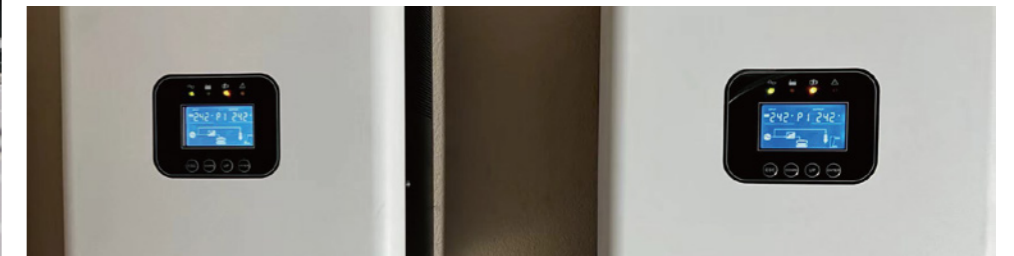
## 01 South Africa Project



South Africa has been severely affected by power outages in recent years, which has prompted local citizens to learn to use home photovoltaic energy storage products.

## Evada Solution

Off-grid solar system with hybrid power source  
2\*5kw EVS5048H solar inverter  
4\*51.2v 100ah wall mount lithium batteries  
13kw solar panels  
1 set of Evada monitoring system



## System Benefits

Use solar first to power appliances in the day, massively reducing grid consumption  
High-density battery storage to easily power loads all night  
300% surge capability to ensure a safe system operation  
0-2ms UPS transfer time to ensure an interrupted backup power in case of agrid failure

## 02 Indonesia Project



Indonesia Telkom builds abundant of BTS in remote area, the cost of maintenance stable backup power by diesel generator is very high. Telkom need stable, clean and lower cost power solution

## Evada Solution

Off-grid solar system with hybrid power source  
5kw EVS5048H solar inverter  
4\*12v 200ah VRLA batteries  
6kw solar panels  
1 set of Evada monitoring system



## System Benefits

- Provide stable power with stable voltage to protect the electrical appliances
- Provide the clean and stable power backup during the grid failure
- Significantly reduce the cost because of zero diesel transportation and reservation
- Provide more safer power backup solution compared to the flammable diesel system

## 02 Thailand Project



Thailand is famous of its wide territory and consisted of thousands of islands. Some remote area and small islands are beyond the coverage of the nation grid. The residents there urge to have stable power supply.

## Evada Solution

Provide stable power with stable voltage to protect the electrical appliances  
Provide the stable power during the blackout time in the evening



## System Benefits

- Off-grid solar system with hybrid power source
- 3kw EVS3048H solar inverter
- 4\*12v 100ah VRLA batteries
- 2.5kw solar panels
- 1 set of Evada monitoring system