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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⁺
Years' experience in power
conversion and smart energy field

32
Branches worldwide

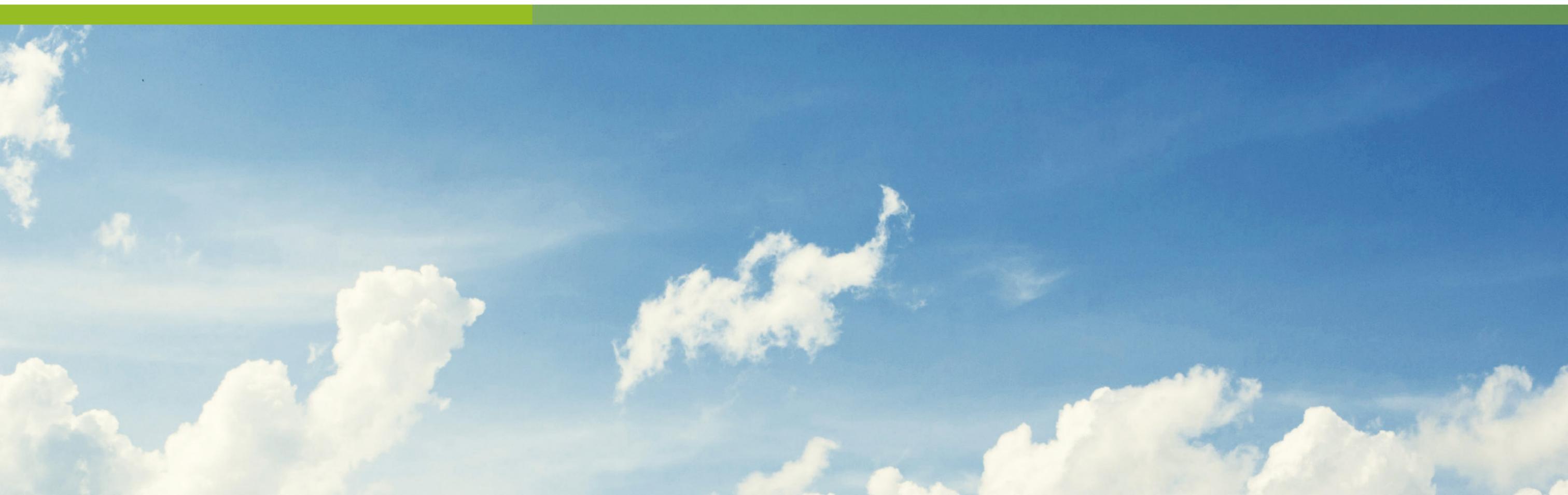
3
R&D centers

25,000⁺
Square meters workplace

20⁺
Industry standards drafting

200⁺
Researchers

30⁺
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)

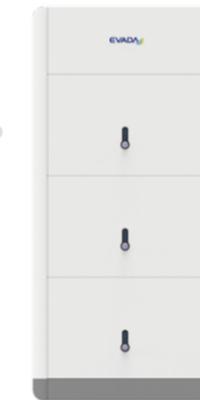
eLite Pre Series all-in-one solar inverter
On-grid and off-grid mode switchable
MPPT voltage range: 90-550v
2 mppt
Output power: 3kw~6kw
Cell type: LiFePO4(LFP)

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, 10.24kwh, 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-3000BH EHS-4600BH
 EHS-3700BH EHS-5000BH

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/inactive 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.

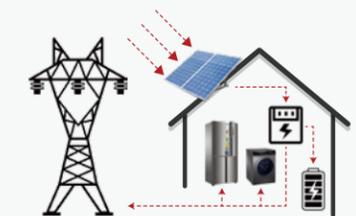
When discharging:

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-3000BH	EHS-3700BH	EHS-4600BH	EHS-5000BH
DC INPUT				
Max. PV array Power (Wp)	4000	5000	6000	6000
Max. DC voltage (V)	600	600	600	600
Rated 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 MPPT trackers	2	2	2	2
String per MPPT tracker	1	1	1	1
AC INPUT				
Max. apparent AC power (VA)	3000	3700	4600	5000
Max. AC current (A)	14.4	16	21	21.7
Rated 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)
Rated grid frequency/range (Hz)	50/60	50/60	50/60	50/60
AC OUTPUT				
Nominal AC power (VA)	3000	3700	4600	5000
Max. apparent AC power (VA)	3000	3700	4600	5000
Rated 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)
Rated grid frequency/range (Hz)	50/60	50/60	50/60	50/60
Rated AC current (A)	13	16	20	21.7
Displacement power factor	0.8 leading 0.8 lagging			
THDi, rated power (%)	< 2			
DC OUTPUT (BATTERY)				
Battery voltage range (V)	85-400			
Recommended battery voltage(V)	300			
Max. continuous charge/discharge current (A)	20			
Communication	CAN/RS485			
Reverse connect protection	Yes			
OFF-GRID OUTPUT				
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
Switching time (ms)	<20 for I version / <500 for E version			
THDv, linear Load (%)	< 2			

MODEL	EHS-3000BH	EHS-3700BH	EHS-4600BH	EHS-5000BH
EFFICIENCY				
MPPT efficiency (%)	99.9			
Euro efficiency (%)	97			
Max. efficiency (%)	97.8			
Battery charge/discharge efficiency (%)	98.5 (PV-BAT) 97.0 (BAT-AC)			
POWER CONSUMPTION				
Standby consumption (Night) (W)	<15 for hot standby, <3 for cold standby			
STANDARD				
Safety	-			
EMC	-			
Certificates	CE,CEI021,(Italy grid certification)			
GENERAL SPECIFICATION				
IP rating	IP65			
Operating temperature (°C)	-20~+60 (derating at +45)			
Altitude operation altitude (M)	2000			
Humidity (%)	4~100(Condensing)			
Storage temperature (°C)	-20~+60			
Noise (dB)	40			
Dimensions (WxHxD) (mm)	422*464*185			
Weight(kg)	18			
Cooling concept	Natural			
Isolation	Non-isolated			
Communication	Ethernet/Meter/Pocket WiFi (optional)/Pocket LAN (optional)/Pocket GPRS (optional)/DRM/USB/ISO alarm/CT			
Display	Backlight 20*4 character			
Warranty	5 Years			

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



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

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/G-PRS/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.

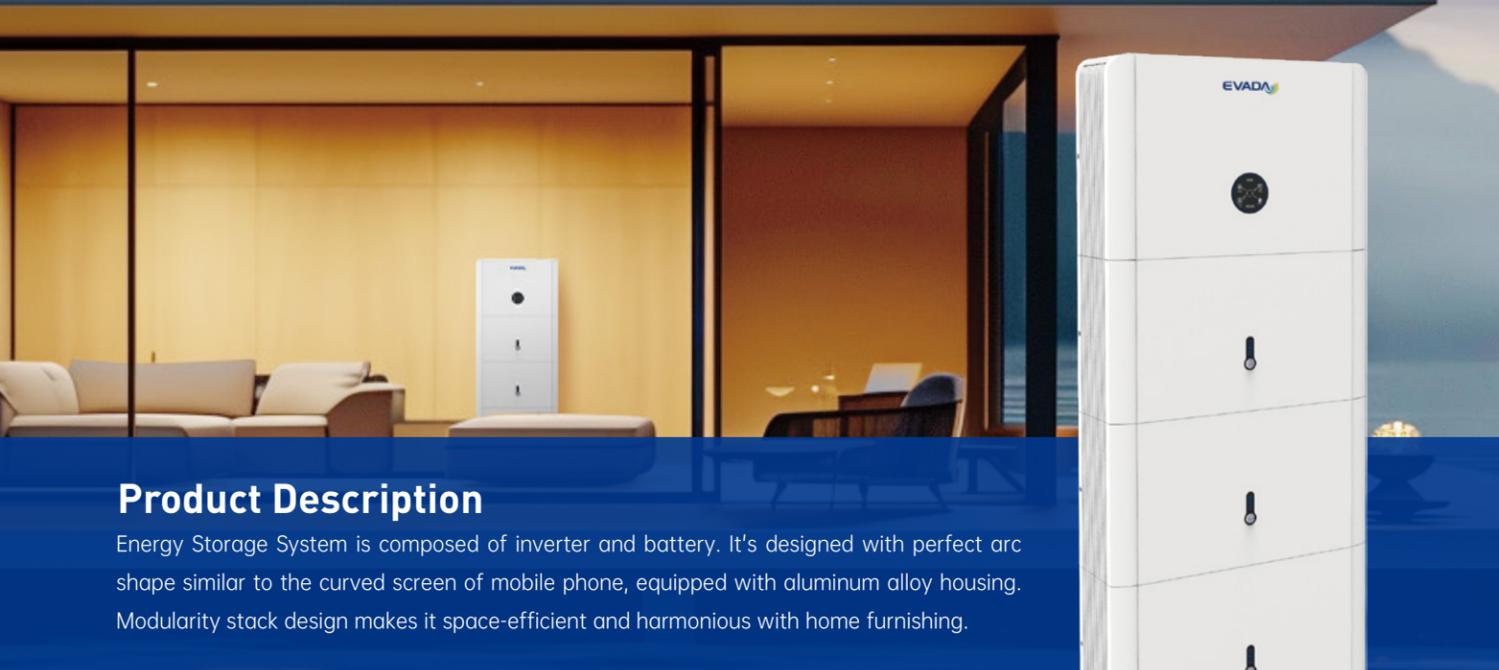


CE / grid connection, etc. can comply with certification requirement of Europe.

Specification

MODEL	EHS-3000BL	EHS-3600BL	EHS-4000BL	EHS-4600BL	EHS-5000BL	EHS-6000BL
DC INPUT (PV)						
Max. input power	8000W	8000W	9000W	9000W	9000W	9000W
Max. input voltage				580V		
Mppt voltage range				90-500V		
Max. current				16A		
Short-circuit current				20A		
Starting voltage				120V		
Quantity of MPPT				2		
BATTERY PARAMETER						
Battery type	Leadacid,lithium battery					
Rated voltage	51.2V					
Input voltage range	40-60V					
Rated charging/discharging power	5000w					
Max. charging/discharging current	100A					
Isolation	High-frequency isolation					
Battery charging wake-up	Support					
Battery communication wake-up	Support					
Charging method	Constant current, constant voltage, floating					
ON GRID						
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%					
Max. input power	8000W	8680W	9000W	9600W	10000W	11000W
Max. input current	34.8A	37.7A	39.1A	41.7A	43.5A	47.8A
OFF GRID						
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%		
EFFICIENCY						
Max. efficiency				97.60%		
European efficiency				97.30%		
Max. efficiency on battery side and AC side				94.70%		
Mppt efficiency				99.90%		
GENERAL SPECIFICATION						
Standby power	<10W					
Dimension (WxHxD) (mm)	510*450*188					
Weight (kg)	<27					
Installation	Wall mounting					
Operating temperature	-25~60°C					
Humidity	0~95%					
Altitudw	4000M					
Noise	<25dB					
Cooling	Natural convection					
IP rating	IP66					
Communicattion interface	Battery RS485, CAN,electricity SR845, WIFI, GPRS,Bluetooth					
Display	LCD					
Max. parallel connection	8					
Isolation	High-frequency isolation					
Warranty	5 Years / 10 Years (optional)					
CERTIFICATES	IEC 62109-1:2010, IEC 62109-2:2011, EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, CEI0-21:2022,(Italy grid certification) 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

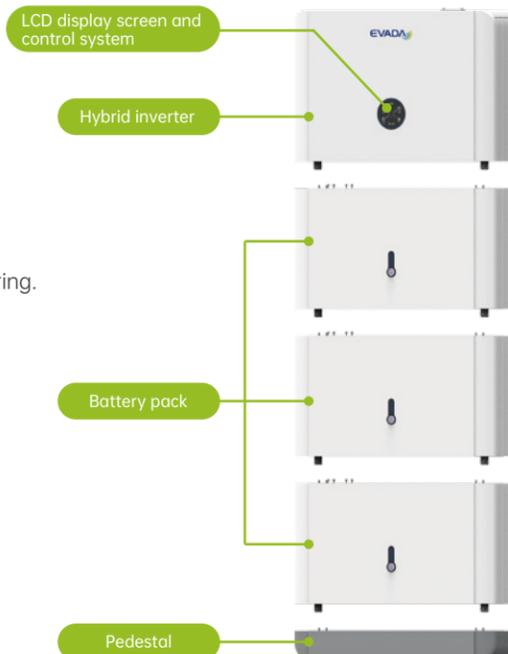
Energy Storage System is composed of inverter and battery. It's designed with perfect arc shape similar to the curved screen of mobile phone, equipped with aluminum alloy housing. Modularity stack design makes it space-efficient and harmonious with home furnishing.



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

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-3000S	EHS-3600S	EHS-4000S	EHS-4600S	EHS-5000S	EHS-6000S
DC INPUT (PV)						
Max. input power	8000W	8000W	9000W	9000W	9000W	9000W
Max. input voltage				580V		
MPPT voltage range				90-550V		
Max. current				16A		
Short-circuit current				20A		
Starting voltage				120V		
Quantity of MPPT				2		
ON GRID						
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%		
Max. input power	8000W	8680W	9000W	9600W	10000W	11000W
Max. input current	34.8A	37.7A	39.1A	41.7A	43.5A	47.8A
OFF GRID						
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%		
EFFICIENCY						
Max. efficiency				97.60%		
European efficiency				97.30%		
Max. efficiency on battery side and AC side				94.70%		
Mppt efficiency				99.90%		
CERTIFICATE						
IEC 62109-1:2010, IEC 62109-2:2011, EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, CEI0-21:2022, (Italy grid certification),G98/1-7, G99 1-9:2022, type A, G100:1-2, VDE-AR-N 4105						
BATTERY PARAMETER						
Battery model	ES-5-LP	ES-10-LP	ES-15-LP	ES-20-LP		
Cell type	LifePO4(LFP)					
Max. quantity of battery modules	6					
Quantity of battery modules	1	2	3	4		
Rated 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					
GERNERAL SPECIFICATION						
Dimension (WxHxD) (mm)	660*(530 + 360*X)*210					
Weight (kg)	30+47*X					
Installation	Floor mounting					
Operating temperature	-25~50°C					
Humidity	0~95%					
Altitude	4000M					
Noise	<25dB					
Cooling	Natural convection					
IP rating for battery	IP65					
IP rating for inverter	IP66					
Communication	Electricity meter SR845, CAN,IWIF, GPRS,Bluetooth					
Warranty	5 Years / 10 Years (optional)					

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



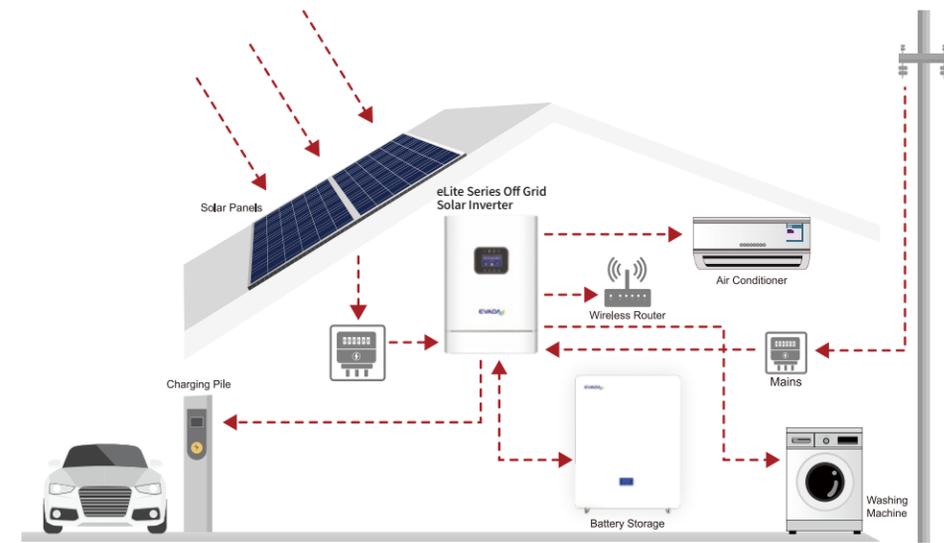
MODEL
EVS3024L EVS3024H EVS5048H

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

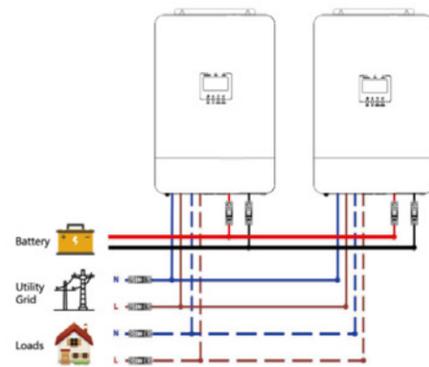
Solar energy provides power to the loads as first priority. The photovoltaic directly supplies power to the loads while charging the battery. Once the solar power is insufficient, the grid will power the load.



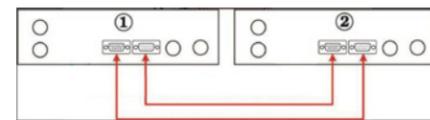
Utility Mode

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

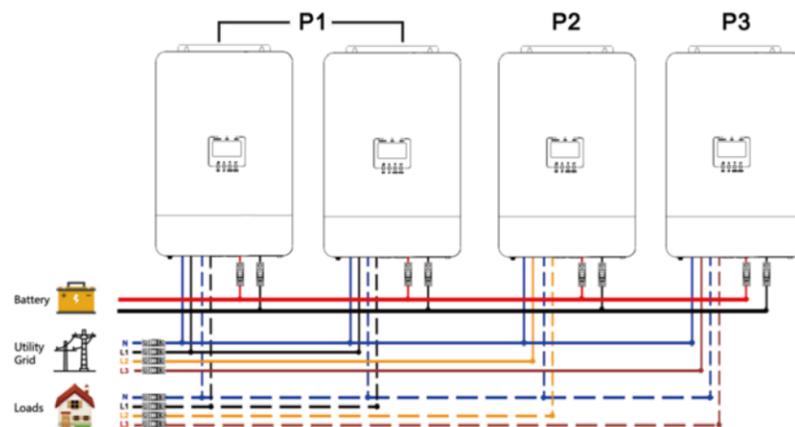


System Connection

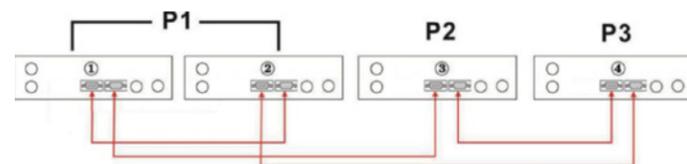


Communication Connection

Three-Phase Parallel System



System Connection



Communication Connection

MODEL	EVS3024H	EVS5048H
Rated power	3000W	5000W
Peak power	6000VA	10000VA
INPUT		
AC input	170~280V/40-70Hz (For computers) ;90~280V /40-70Hz(For household appliances)	
OUTPUT		
Output voltage	208VAC/220VAC/230VAC/240VAC	
Switching 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	
BATTERY&CHARGER		
Battery voltage	24VDC	48VDC
Battery type	Lead Acid /Lithium Battery	
Charging	MPPT	
Max. PV power input	4000W	6000W
Max. PV voltage input	500VDC	500VDC
MPPT trackingrange	120~430VDC	120~430VDC
Charging current	10-120A (Adjustable)	2-80A (Adjustable)
Max. mains charging current	80A	80A
Max. PV charging current	120A	80A
GENERAL SPECIFICATION		
LCD display	Working modes/ Loads/ Input/ Output	
Communication interface	RS232/ Dry contact/ USB/ GPRS&WIFI/RS485 optional	
Parallel interface (Optional)	/	Parallel card
Operating temperature & humidity	0~ 50C ; 20 %~ 95 % (Non-condensing)	
Noise	≤50dB	
Storage temperature	- 15 ~ 60C	
Cooling	Fans	
IP rating	IP20	
Altitude	1000 Meters no derate. >1000 Meters derating, and with maximum altitude 4000 meters	
Dimensions (WxHxD) (mm)	445*300*124mm	
Weight (kgs)	9	
Gross weight (kgs)	11	
Certificates	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

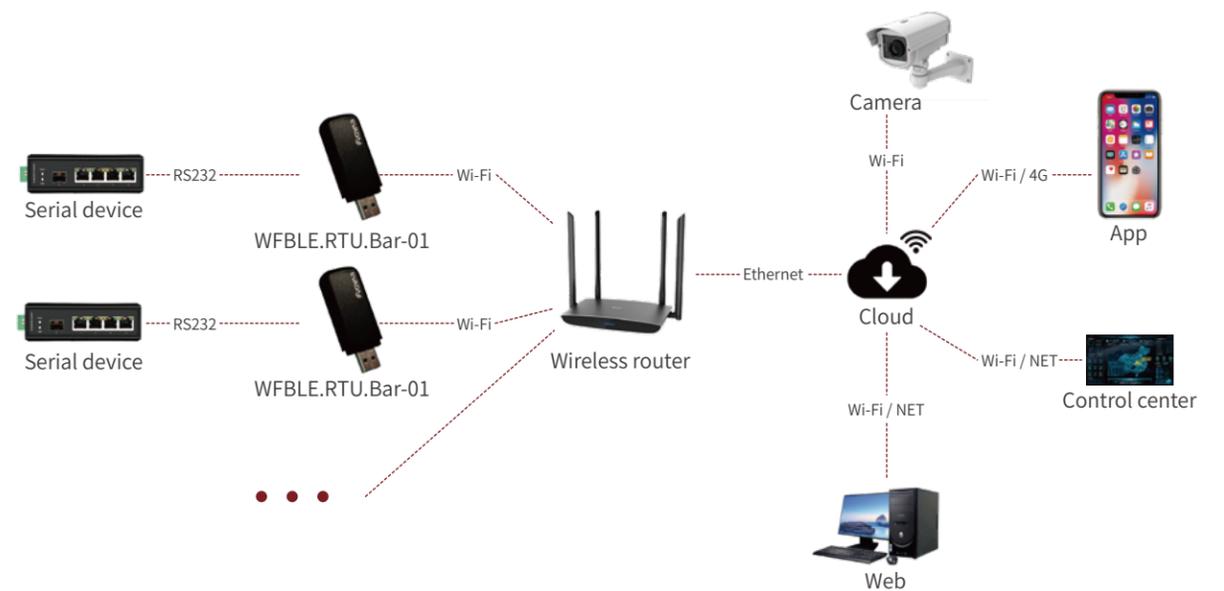
- Device selection:** industrial-grade components, can work for a long time in -35°C ~ +85°C;
- Protection measures:** software watchdog + hardware watchdog dual protection;
- Stability mechanism:** heartbeat detection, network retry, automatic retry when the device loses connection;
- Data security:**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

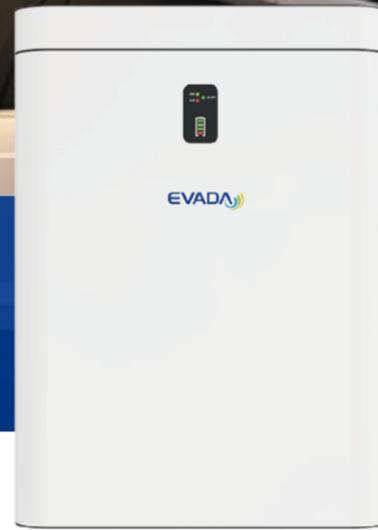


Model	WFBLE RTU Bar-01	
Hardware	Dimensions(D/W/H)mm	64*25.8*12
	Weight	11±3g
	IP rating	IP21
	Rated voltage	DC5V±5%
	Max.current	500mA (DC5V)
	Operating temperature	-35°C~+85°C
	Storage temperature	-40°C~+90°C
	Host interface	USB
	Input communication interface	RS232
	Output communication interface	Wi-Fi
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
	Certificates	CE, RoHS Compliant

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

Product Description

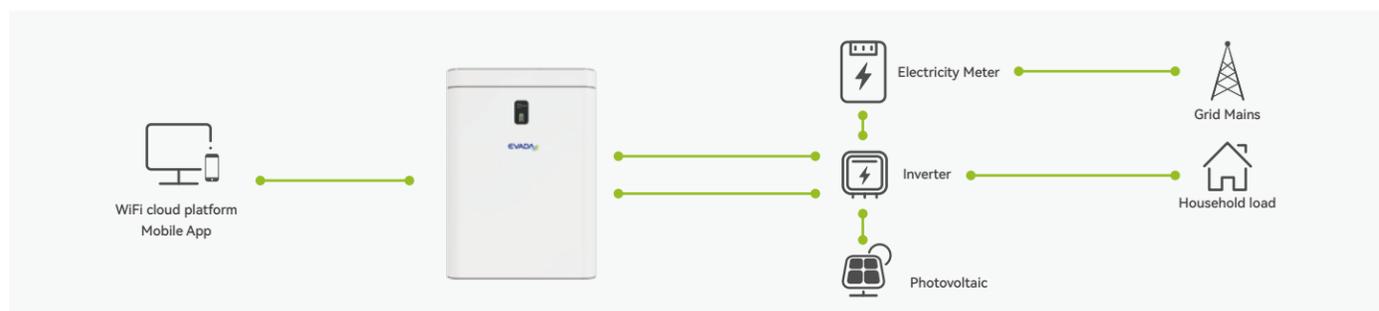
All battery cells undergo intelligent sorting, ensuring accurate and reliable voltage and current; a specialized BMS board is employed to safeguard the battery pack. The battery exhibits high energy density, long lifespan, and is characterized by safety, reliability, and suitability for a wide temperature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



MODEL
BOX26 BOX26 PLUS BOX26 MAX

Product Highlights

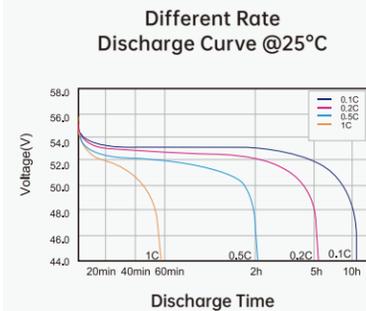
- High-quality LFP battery
- Independent BMS for battery management
- Support RS485/CAN
- Supports parallel connection of multiple battery packs
- Wall-mounted design for easy installation
- 6000 cycles lifetime
- Wide temperature range: -20°C~60°C
- Versatile application for home, store, and office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



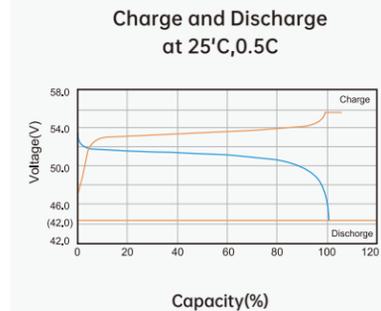
Specification

MODEL	BOX26	BOX26 PLUS	BOX26 MAX
Rated power	5.12kWh	10.24kWh	14.4kWh
Rated voltage	51.2V	51.2V	51.2V
Rated 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 Parallel		
Communication interface	RS485, RS232, CAN (Optional)		
Cycle life *	>6000 Cycles (80%DOD)		
Charge temperature	0~65°C		
Discharge temperature	-20~65°C		
Certification	UL/EMC/CE/MSDS / UN38.3		
Dimensions(D/W/H)mm	480*660*150	480*660*240	490*830*240
Weight (kg)	50	90	120
Installation method	BOX26, BOX26 PLUS wall mount MAX Floor standing		
Warranty	5 Years(under warranty terms)		
Wifi function	Optional		

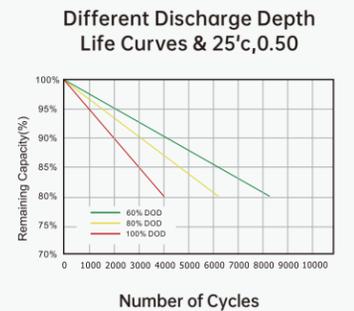
Different Current/ Temperature Discharge Curve



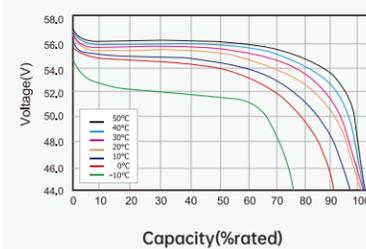
Charging and Discharge Curve



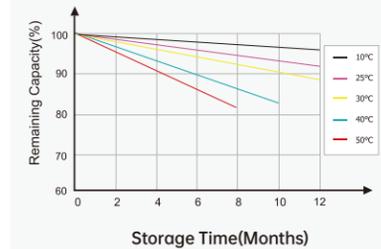
Cycle Life Curve



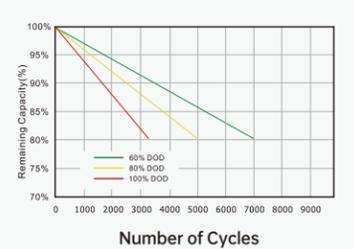
Different Temperature Discharge Curve @0.5C



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

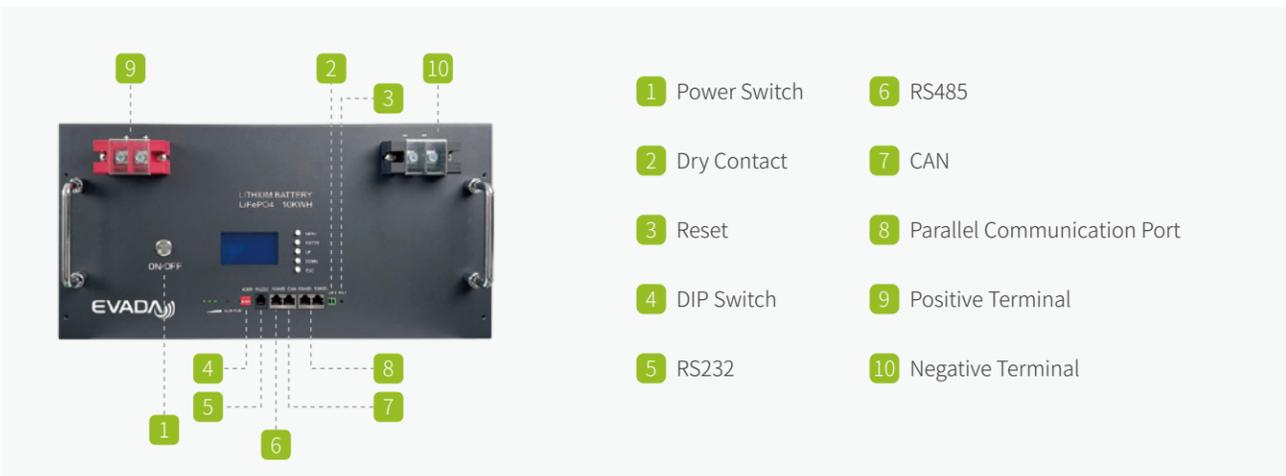
Automotive Grade Cells-16 cell configuration;Integrated CAN bus,RS485,BMS; LCD display shows battery information;Pre-configured with optimal parameters;No other LiFePO4 battery offersthis functionality, longevity and warranty at our price;War-ranted for daily cycling.Optional smart heating function can 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 cycles lifetime
-  Versatile application for home, store, and office use
-  Support RS485/CAN
-  Supports parallel connection of multiple battery packs



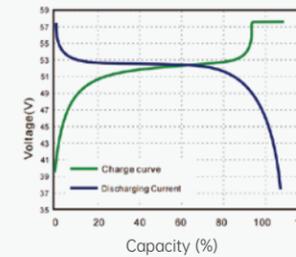
Specification



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	0~65°C		
Discharge temperature	-20~65°C		
Storage Temperature	-25~45°C		
Humidity	Max. 95% (Non-condensing)		
Expansion	Support 10 units in parallel	Support 10 units in parallel	Support 15 units in parallel
Dimension (WxHxD) (mm)	442X400X133	440*440*132(3U)	442X520X320
Weight (kg)	26	47.5	82
Installation	Rack mounted		

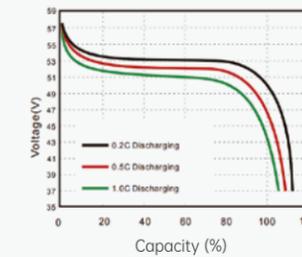
Charging and Discharge Curve

Charge and Discharge Curve@0.5C 25°C



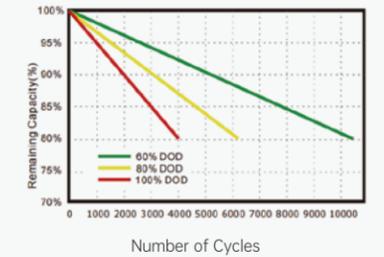
Different Current/Temperature Discharge Curve

Different Rate Discharge Curve @25°C

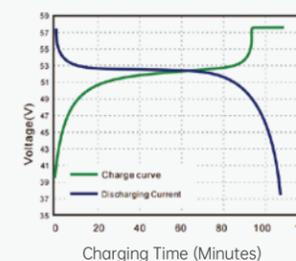


Cycle Life Curve

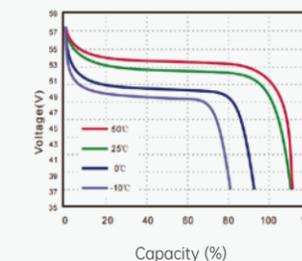
Different discharge depth life curves &25°C0.50



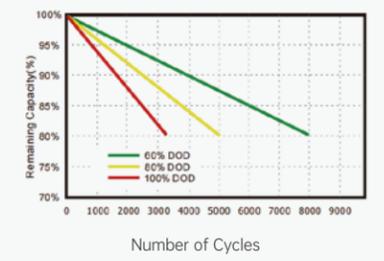
Charging Characteristics @0.5C 25°C



Different Temperature Discharge Curve @0.5C



Different discharge depth life curves &40°C0.5C

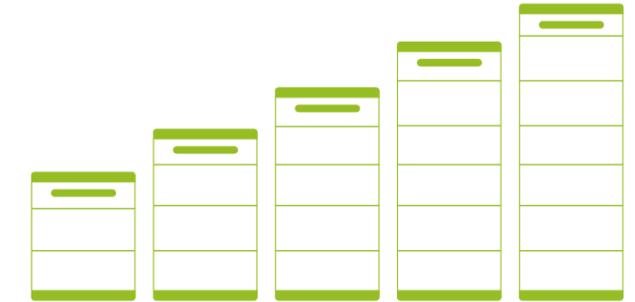


High Voltage Stackable Lithium Battery With BMS Inbuilt



Application

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



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.



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

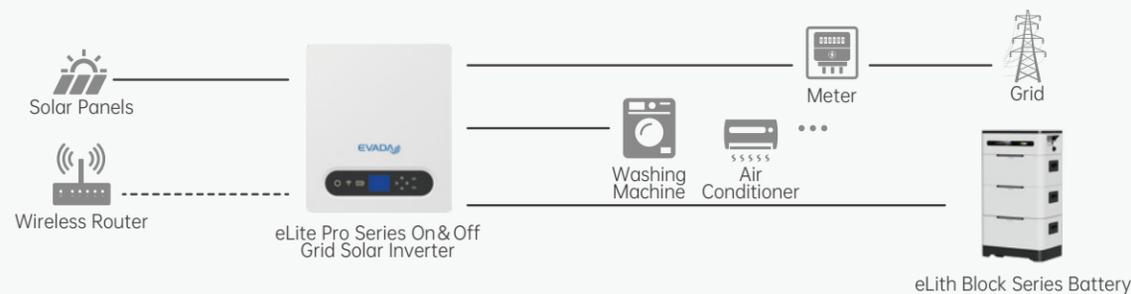
Product Highlights

- 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

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				
Dimension (WxHxD) (mm)	550*370*737	550*370*973	550*370*1209	550*370*1445	550*370*1682
Weight (kg)	119	169	220	270	321
IP rating	IP20				
Installation	Indoor installation				
Operating temperature	-10°C ~ 55°C				
Optimum operating temperature	20°C ~ 30°C				
Storage temperature	-30°C ~ 60°C				
Humidity	5% ~ 95%				
Altitude	≤2000m				
Cooling	Natural cooling				

eLith Block Series Battery Storage System



Low Voltage Stackable Lithium Battery With BMS Inbuilt



MODEL
ES-5-LP ES-10-LP ES-15-LP ES-20-LP

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.

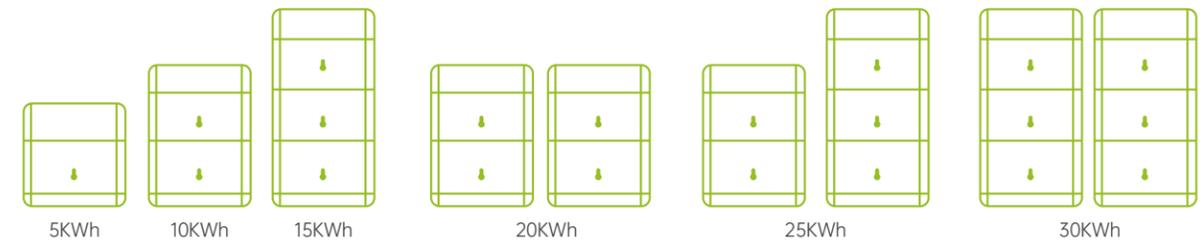


Safer with hidden wiring design.



Scalable to maximum 30.72KWh.

Product Diagram



Specification

MODEL	ES-5-LP	ES-10-LP	ES-15-LP	ES-20-LP
TECHNICAL REFERENCE				
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
GENERAL SPECIFICATION				
Communication	RS485, CAN			
Ip rating	IP65			
Weight	54	101	148	195
Operating temperature	-20°C~ +50°C (discharging)			
Humidity	5~95%			
Display	LED			
Dimension(width*height*depth)	660x680x210	660x1040x210	660x1400x210	660x1760x210
Installation	Floor mounting			
Altitude	4000M			
Warranty	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

03 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.

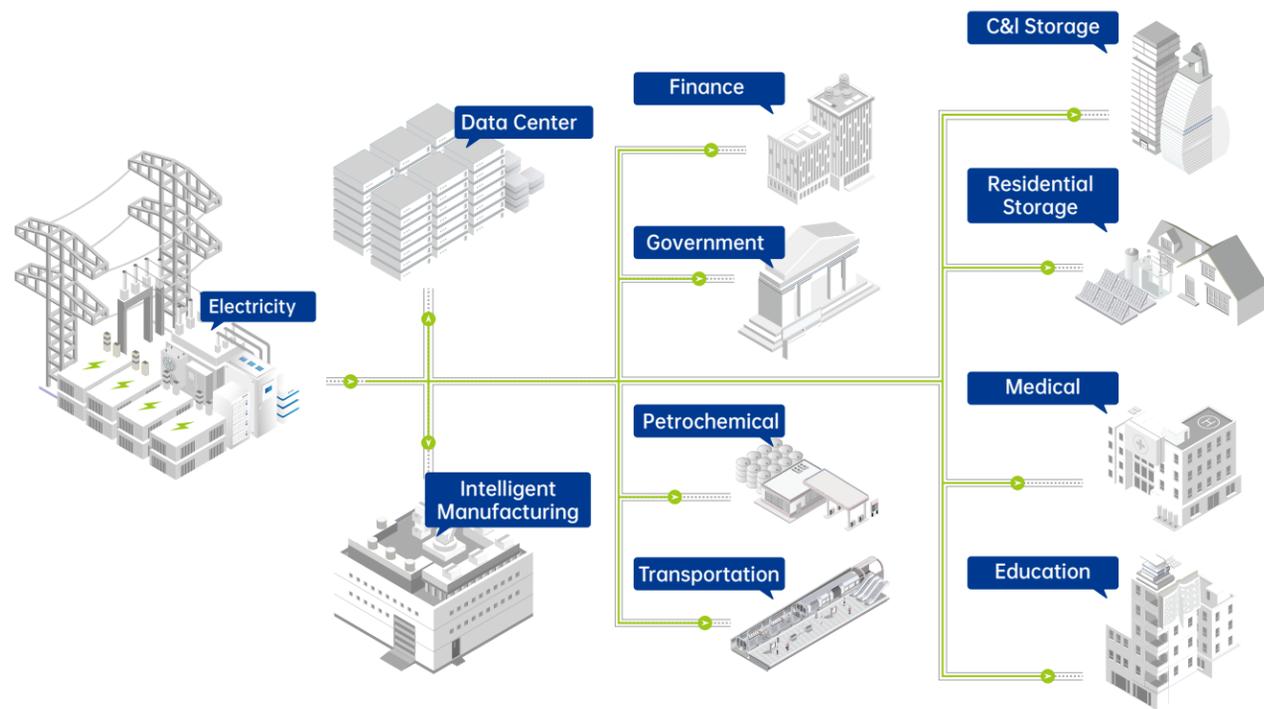
Evada Solution

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



Power the Green World

