



Leoch International Technology Limited

Floor 18,Huide building, Minzhi street, Longhua

District,Shenzhen,China.

Tel: +86-755-86036060(100lines)

E-mail: info.lithium@leoch.com

Visit **www.leoch.com** for more information.



© LEOCH. All rights reserved.
Trademarks and logos are the property of LEOCH and its affiliates unless
otherwise noted. Subject to revisions without prior notice E&OE.

LB-LI-PB-EN-V1.0-202303

LEOCH ENERGY STORAGE PRODUCTS

Provide Reliable and
Innovative Power Supply

www.leoch.com

20
23



Large scale automated production line



Company Profile


Founded in 1999, Leoch International (stock code: 00842.HK) is a global leading power supply solutions provider. Headquartered in Singapore, Leoch is a participant in the development of several international industry standards and Chinese national standards. With 13 worldwide manufacturing bases covering an area of 1.32 million square meters, over 70 local service companies, and 13,000 employees including over 1,500 R&D and technical personnel, Leoch International provides industrial and commercial energy storage solutions, ranging from R&D, manufacturing, sales, and services in over 130 countries and regions worldwide. Leoch International specializes in providing professional power supply solutions for industrial and commercial applications worldwide. The company's products and services are focused on:


- Energy storage systems;
- Backup power supplies;
- Automotive start-stop power supplies;
- Motive power supplies;

 **1500+**
R&D Staffs

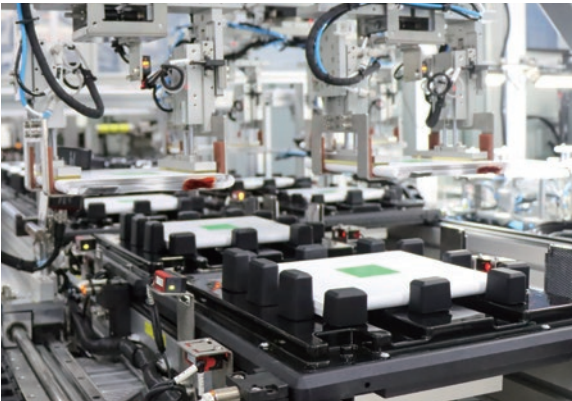
 **20+**
Years of Industrial Experience

 **3**
R&D Centers

 **4+**
GWH production Capacity

 **60+**
Standard Settings

 **1200+**
Patents



Leoch manufacturing team has experience in large-scale lithium battery manufacturing and the ability of long-term stable product delivery. The company's lithium battery production line has achieved a high degree of automation and intelligence in production. By introducing a new EMS intelligent system and integrating data acquisition channels (RFID, PLC, IPC, PC, etc.) to cover the entire factory manufacturing site, it can ensure real-time, accurate, and comprehensive collection of big data, multi-dimensional protection of product stability, consistency, service, which helps customers establish safe and reliable energy storage systems.

Test Center

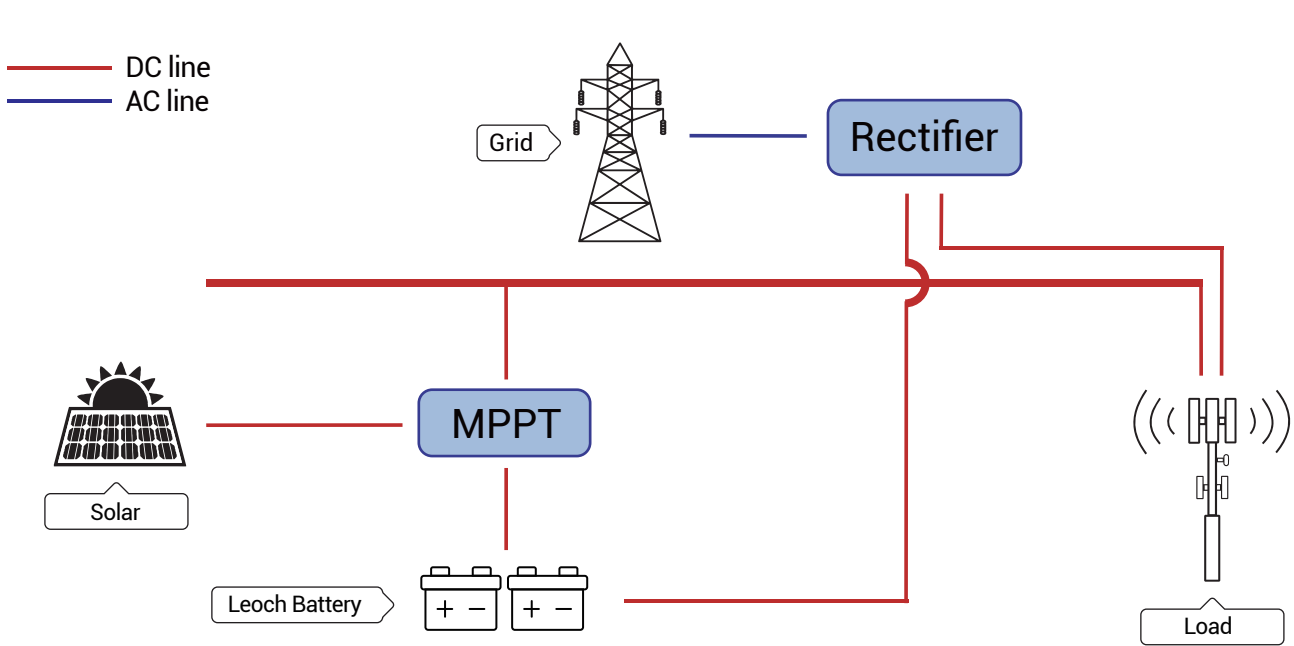
Since its establishment, Leoch testing and verification center has been operating strictly accordance with the requirements of CNAS. It has industry-leading testing and verification equipments and a high-level tester team, and has professional testing and verification capabilities for lithium battery products, including material testing, performance testing, and safety and reliability testing, which is able to ensure the quality of battery products is safe and reliable.

Leoch Global Operation



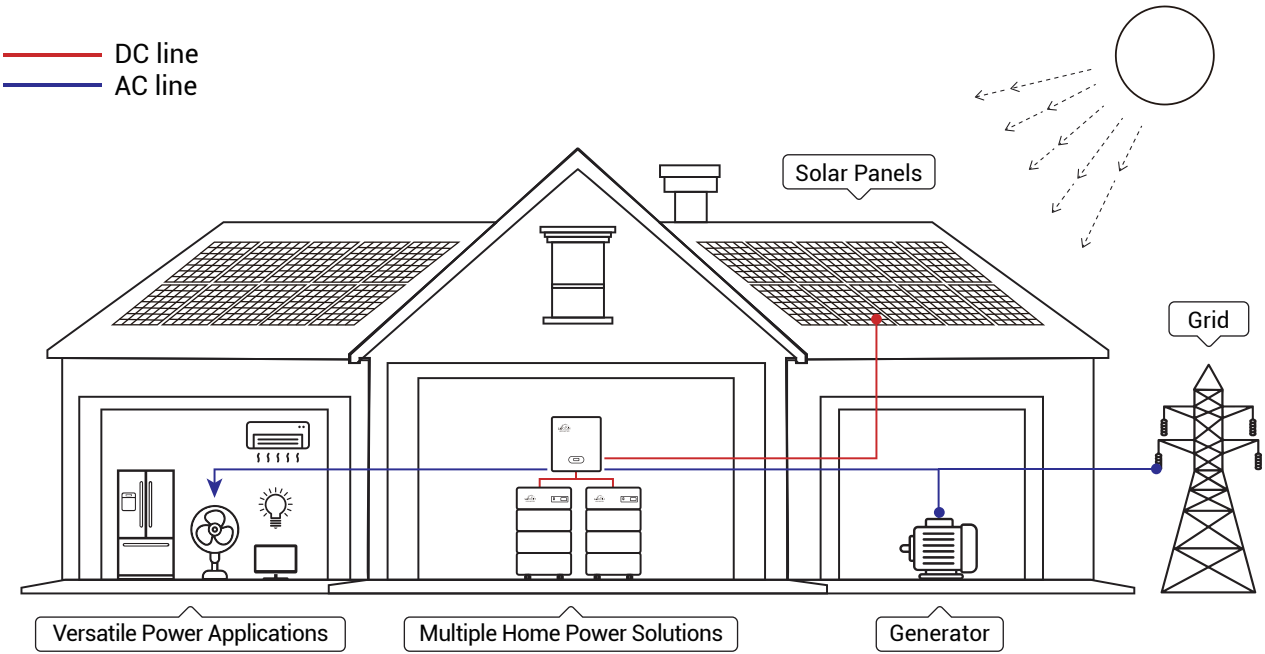
Leoch Network Power Solution

Leoch manufactures a wide range of Lithium Network Power Batteries to cover any telecommunications requirement. Aiming to deliver an unprecedented value to your needs, these solutions offer exceptional performance, long life, high energy density, ease of installation, and hassle-free operation for a broad spectrum of telecom applications.



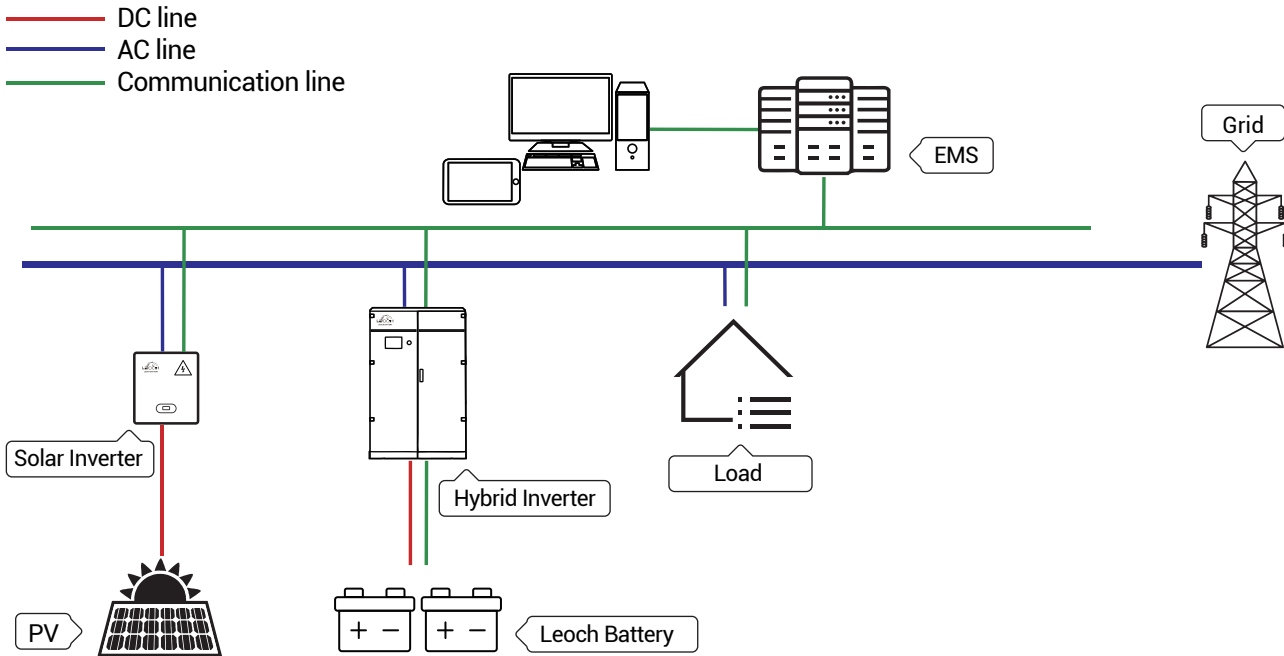
Residential Solar Power Storage Solution

With the deepening of the low-carbon concept and the improvement of the economic benefits of energy storage; Home energy storage systems are increasingly widely used. Based on a thorough understanding of market and industry trends, Leoch has developed household energy storage products that can flexibly adapt to multiple scenarios, making it easier and more efficient for users to use electricity.



Industrial & Commercial Energy Storage Solution

In the field of industrial and commercial energy storage, Leoch can provide modular products and more integrated container energy storage systems, flexibly adapting to customer needs. The system is characterized by convenient installation, safety, and efficiency, which can significantly improve the return on investment of customers.



Network Power



48V Communication Lithium Battery



High Energy Density



Easy To Install And Upgrade



Remote Control And Diagnosis



15 Years Life Time Design

Product Feature



More reliable and safety

- Support gyroscope anti-theft and GPS anti-theft



Advanced monitoring control

- Optimized monitoring strategy through remote control and diagnosis



Wide working temperature

- Excellent high-temperature performance with a working environment temperature of -20-60 Celsius degrees



Easy operation

- Friendly human-machine interface for easy operation



More compatible to monitoring system

- Support RS232 and RS485 communication to be connected to the power environment monitoring system

48V Communication Lithium Battery



Model	LFeLi-4850TB	LFeLi-48100TB	LFeLi-48150 TBG-A	LFeLi-48150 TBG-B	LFeLi-48200TB
Rated Capacity (5HR)	50 AH	100 Ah	150 AH	150 AH	200 Ah
Nominal Voltage	48.0 V	48.0V	48.0 V	48.0 V	48V
Discharge Ending Voltage	40.5 V	40.5 V	40.5 V	40.5 V	40.5 V
Charging Limited Voltage	54.0V	54.0 V	54.0 V	54.0 V	54V
Max. Charging Current	50.0 A	100 A	100 A	100 A	100 A
Max. Continue Discharging Current	50.0 A	100A	100 A	100 A	100A
Weight	Approx. 32 Kg	Approx. 41 Kg	Approx. 65 Kg	Approx. 65 Kg	Approx.83 Kg
Display	With a LCD display screen	With a LCD display screen	Without a display screen	With a LCD display screen	With a LCD display screen
Parallel Connection	Parallel connection is optional (up to 16P)	Parallel connection is optional (up to 16P)	Parallel connection is optional (up to 32P)		Parallel connection is optional (up to 16P)
Dimensions (W*D*H) mm	442 * 442 * 132	442 * 450 * 132	442*520*198		442 * 550 * 244
Containing Cell	3.2V 50Ah	3.2V 100Ah	3.2V 150Ah		3.2V 200Ah
Design Life	More than 15 years				
Cycle Life	More than 5000 cycles at 80% DOD				
IP Class	IP31				
Outer Package Material	Black bake lacquer steel case (battery rack or cabinet is optional)				
Operating Temperature	Charging: 0°C to +50°C Discharging: -20°C to +60°C Storage: -20°C to +60°C				

48V Intelligent Lithium Battery



Outstanding Compatibility To
Battery And Dc Power



Data transmission and
TV signal transmission




Bureaus (stations),
switching stations





Emergency power supply
wired communication

Product Feature

- **Outstanding compatibility to battery and DC power**
 - Compatible with existing DC power system and mixed batteries

- **Auxiliary power supply**
 - Save the expansion costs for base station

- **Boost power supply**
 - Compensating for the drop voltage and reducing the investment cost for booster

- **Up to 32 groups in parallel connection**
 - Expandable battery capacity to cater for different level demand

48V Intelligent Lithium Battery



Model	LFeLi-48100ZN
Rated Capacity (5HR)	100 Ah
Nominal Voltage	48V
Discharge Ending Voltage	40.5V
Charging Limited Voltage	54V
Max. Charging Current	100 A
Max. Continue Discharging Current	100 A
Weight	Approx. 42 Kg
Display	Without a display screen
Parallel Connection	Parallel connection is optional (up to 32P). When paralleling, the max. charging current is 20A
Dimensions (W*D*H) mm	442 * 450* 132
Containing Cell	3.2V 50Ah
Design Life	More than 15 years
Cycle Life	5000cycles at 80%DOD
IP Class	IP30
Outer Package Material	Black aluminum and sheet metal case (battery rack or cabinet is optional)
Operating Temperature	Charging: 0°C to + 45°C Discharging: -20 to + 60°C Storage: -20°C to + 60°C

48V GPS Communication Lithium Battery



Field Base
Stations



Data Transmission And
Tv Signal Transmission



Bureaus (Stations)
Switching Stations



Emergency Power Supply
Wired Communication

Product Feature

-  • Real-time monitoring and detection by GPS
-  • Abnormal battery status indication
-  • History footprint track and playback
-  • Maintenance by nearby staff to improve the service efficiency

48V GPS Communication Lithium Battery



Model	LFeLi-48150 EG	LFeLi-48100EG
Rated Capacity (5HR)	150 Ah	100 Ah
Nominal Voltage	48.0 V	48.0 V
Discharge Ending Voltage	40.5 V	40.5 V
Charging Limited Voltage	54.0 V	54.0 V
Max. Charging Current	100 A	100 A
Max. Continue Discharging Current	100A	100A
Weight	Approx. 65 Kg	Approx. 41 Kg
Display	Without LCD display	
Parallel Connection	Parallel connection is optional (up to 16P)	
Dimensions (W*D*H) mm (inches)	442 * 520 * 198	442 * 450 * 132
Anti-theft Feature	T-Sensor & GPS	
Internal Storage	Five minutes a record, a total of three years	
Cell	3.2V 150Ah	3.2V 100Ah
Design life	More than 15 years	
Cycle Life	More than 5000 cycles at 80% DOD	
IP Class	IP31	
Outer Package Material	Black bake lacquer steel case (battery rack or cabinet is optional)	
Operating Temperature	Charging: 0 °C to + 50 °C Discharging: -20°C to + 60 °C Storage: -20°C to +60 °C	

PU High Power Series



High Rate Charge & Discharge

Battery string supports high rate charge & discharge



Modular Design

PACK with modular design can be maintained independently



Flexible Configuration

Flexible in series or parallel connection, support three-level UPS system if the module quantity is even number



High Compatibility

Replace lead acid battery without modifying the UPS

Product Feature

Safest and durable life

- Adopt high energy density and safest lithium iron battery

Multiple output communication interfaces

- Compatible to most leading inverters by more comms port options.

3-level architecture for battery management

- Multiple classes battery management, reliable and high efficiency

Automatic circulating current control and parallel or offline control

- Easily realize the parallel operation by automatic circulating current control and parallel control

Battery Module

1. Multiple communication interfaces, supporting most of PCS and UPS communication in the market.
2. Adopt internal cell equalization function. The maximum equalization current can reach 300mA.
3. Precise data collection for battery. Support high precision collection of battery voltage and temperature: $\pm 3\text{mV}$, $\pm 1^\circ\text{C}$;
4. Complete self-check and operation status detection function with HMI display

PU High Power Series



Model	PU240V50	PU384V50	PU480V50	PU512V50	PU720V50
Nominal Voltage	240V(1P75S)	384V(1P120S)	480V(1P150S)	512V(1P160S)	720V(1P225S)
Rated Capacity	50Ah	50Ah	50Ah	50Ah	50Ah
Rack Specification					
Dimension	600*800*2000mm	600*800*2000mm	600*800*2000mm	600*800*2000mm	600*1600*2000mm
Modules	5	8	10	10	15
Module Specification					
Connection Method	1P15S	1P15S	1P15S	1P16S	1P15S
Dimension	440*330*176mm	176*630*265mm	176*630*265mm	176*630*265mm	176*630*265mm
Weight	20kg	20kg	20kg	22kg	20kg
Chemistry	LFP	LFP	LFP	LFP	LFP
Electrical Specification					
Operation Voltage	203V~270V	324V~432V	405V~540V	432V~576V	607V~810V
Charge Voltage	263V	420V	525V	560V	787V
Charge Method	CC/CV	CC/CV	CC/CV	CC/CV	CC/CV
Standard Charge Current	15A	15A	15A	15A	15A
Standard Discharge Current	50A	50A	50A	50A	50A
Max Charge Current	30A	30A	30A	30A	30A
Max Discharge Current	200A(4C)	200A(4C)	200A(4C)	200A(4C)	200A(4C)
Backup Time	15minutes (45kW)	15minutes (72kW)	15minutes (90kW)	15minutes (100kW)	15minutes (135kW)
Max Parallel	15	15	15	15	15
Others Specification					
Operation Temperature	Charge: 0°C ~ 45°C Discharge: -20°C ~ +60°C Storage: -30°C ~ +60°C				
Humidity	5%~95%				
Thermal Management	fan cooling				
Communication Method	RS 485				

BU Long-time Backup Power Series



High Rate Charge & Discharge

Battery string supports high rate charge & discharge



Modular Design

PACK with modular design can be maintained independently



Flexible Configuration

Flexible in series or parallel connection, support three-level UPS system if the module quantity is even number



High Compatibility

Replace lead acid battery without modifying the UPS

Product Feature

Safest and durable life

- Adopt high energy density and safest lithium iron battery

Multiple output communication interfaces

- Compatible to most leading inverters by more comms port options.

3-level architecture for battery management

- Multiple classes battery management, reliable and high efficiency

Automatic circulating current control and parallel or offline control

- Easily realize the parallel operation by automatic circulating current control and parallel control

Battery Module

1. Multiple communication interfaces, supporting most of PCS and UPS communication in the market.
2. Adopt internal cell equalization function. The maximum equalization current can reach 300mA.
3. Precise data collection for battery. Support high precision collection of battery voltage and temperature: $\pm 3\text{mV}$, $\pm 1^\circ\text{C}$;
4. Complete self-check and operation status detection function with HMI display

BU Long-time Backup Power Series



Model	BU240V100	BU384V100	BU480V100	BU512V100	BU720V100
Nominal Voltage	240V(1P75S)	384V(1P120S)	480V(1P150S)	512V(1P160S)	732.8V(1P229)
Rated Capacity	100Ah	100Ah	100Ah	100Ah	100Ah
Rack Specification					
Dimension	600*800*2000mm	600*800*2000mm	600*800*2000mm	600*800*2000mm	600*1600*2000mm
Modules	5	8	10	10	10
Module Specification					
Connection Method	1P15S	1P15S	1P15S	1P16S	1P22s&1P23s
Dimension	440*330*176mm	176*630*265mm	176*630*265mm	176*630*265mm	176*630*265mm
Weight	35Kg	35Kg	35Kg	37Kg	52.9Kg
Chemistry	LFP	LFP	LFP	LFP	LFP
Electrical Specification					
Operation Voltage	203V~270V	324V~432V	405V~540V	432V~576V	6183V-824.4V
Charge Voltage	263V	420V	525V	560V	787V
Charge Method	CC/CV	CC/CV	CC/CV	CC/CV	CC/CV
Standard Charge Current	25A	25A	25A	25A	25A
Standard Discharge Current	50A	50A	50A	50A	50A
Max Charge Current	50A	50A	50A	50A	50A
Max Discharge Current	200A(2C)	200A(2C)	200A(2C)	200A(2C)	200A(2C)
Backup Time	30minutes (45kW)	30minutes (72kW)	30minutes (90kW)	30minutes (100kW)	30minutes (135kW)
Max Parallel	15	15	15	15	15
Others Specification					
Operation Temperature	Charge: 0°C ~ 45°C Discharge: -20°C ~ +60°C Storage: -30°C ~ +60°C				
Humidity	5%~95%				
Thermal Management	fan cooling				
Communication Method	RS 485				

Residential Battery Energy Storage Solution



Power Your Home with Solar Energy During the Day



Backup for Critical Loads During Power Outages



Stackable design, effortlessly installation

Home Energy Storage (Wall-mounted)



High Efficiency
Max. efficiency 95%



Eco-Friendly
Clean energy



Long Lifespan
Sustainable long cycles



Built-in BMS
charge & discharge protection

Product Introduction

- Up to 16 groups of parallel connections, flexible capacity expansion
- LED display for voltage, current, temperature, convenient for users to query

- Compatible with mainstream inverters in the market, providing more options
- Built-in BMS provides multiple protection functions

Home Energy Storage (Wall-mounted)



Item	Parameters			
Specifications and models	LFeLi-4850	LFeLi-48100	LFeLi-48150	LFeLi-48200
Nominal voltage	51.2v			
Nominal capacity	50Ah	100Ah	150Ah	200Ah
"Maximum continuous charge/discharge current"	25/50A	100A/100A	100A/100A	100A/100A
Discharge voltage/Maximum charge	43.2 V/58.4 V	43.2 V/58.4 V	43.2 V/58.4 V	43.2 V/58.4 V
Weight	30kg	43kg	65kg	90kg
Dimensions(W×D×H) (mm)	450*450*130	450*500*140	400*600*200	500*620*245
Cycle life	5000 cycles @ 25°C 80% DOD			
"Number of parallel connections supported"	15			
Self-discharge (month)@25°C	≤3%			
BMS communication types	RS485/RS232/CAN			
Cooling Mode	Free Cooling			
IP Class	IP54			
Display Fuction	LCD Display			
Design Life	10 Years			
Certification	CE UN38.3 UL IEC TUV			
Storage Temperature	0°C to 40°C			
Operate Temperature	charge: 0°C to 45°C; discharge: -10°C to 55°C			
Relative Humidity	5% to 95%			
Working Pressure	61kPa~113kPa			

LeoEco Stackable Power Bank (LV)

LFELI48100H-DJ



High Efficiency

Max. efficiency 100%



Easy installation

45 Kg Battery modules



Safe and Reliable


Lithium iron phosphate battery cells





Perfect Compatibility


Work with leading branded inverters


Product Introduction


- 

Scalable from 5 kWh to 320 kWh
- 

LFP battery, safest and long cycle life
- 

Compatible with a variety of mainstream inverter
- 

Stackable design,effortlessly installation
- 

Maximum Flexibility for any Applications with up to 64 Modules Connected in Parallel
- 

Capable of High-Powered Emergency-Backup and Off-Grid Function

Battery Module

- 5.12 kWh per Module
- Modular and Stack Installation Design to simplify the maintenance
- Connect up to 64 module in parallel for a maximum size of 320 kWh.

Home Energy Storage (Stackble Battery)

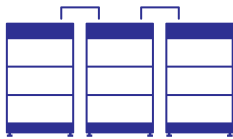


Flexible, Efficient, Simple



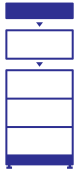
Plug Connection

No Additional Wiring Required



5-60KWH

Tailored Sizing for Each Application



Extend Anytime

Easily Adapts to New Requirements



High Power

Power for Every Application

Technical Parameters

Battery Module	LFELI48100H-DJ					
Number of Modules	1	2	3	4	5	6
Usable Energy [1]	5 kwh	10 kwh	15 kwh	20 kwh	25 kwh	30 kwh
Max Cont. Output Current [2]	100 A	100 A	100 A	100 A	100 A	100 A
Nominal Voltage	51.2 V					
Operating Voltage	43.2-58.4 V					
Operating Temperature	-10°C to +50°C					
Battery Cell Technology	Lithium Iron Phosphate					
Communication	CAN / RS485					
Enclosure Protection Rating	IP55					
Round-Trip Efficiency	95%					
Scalability [3]	Max. 64 Modules in Parallel (320 kWh)					
	UN38.3					
Applications	ON Grid + Backup / OFF Grid					

LeoEco Stackable Power System (LV)

LFELI48100H-DJ-ESS020



High Efficiency

Max. efficiency 100%



Easy installation

45 Kg Battery modules



Safe and Reliable

Lithium iron phosphate battery cells



Perfect Compatibility

Work with leading branded inverters

Product Introduction

- Scalable from 5 kWh to 60 kWh
- Self-Consumption Optimization
- Maximum Flexibility for any Applications with up to 12 Modules Connected in Parallel
- Integrated with inverter to avoid the compatibility problem
- LFP battery, safest and long cycle life
- Stackable design,effortlessly installation
- Capable of High-Powered Emergency-Backup and Off-Grid Function

Battery Module

- 5.12 kWh per Module
- Modular and Stack Installation Design to simplify the maintenance
- Connect up to 64 module in parallel for a maximum size of 320 kWh.

Home Energy Storage (Stackble Battery)



Flexible, Efficient, Simple



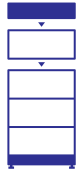
Plug Connection

No Additional Wiring Required



5-60KWH

Tailored Sizing for Each Application



Extend Anytime

Easily Adapts to New Requirements



High Power

Power for Every Application

Technical Parameters

Item	Parameters					
Rated Power	5600W					
Maximum PV Array Open Circuit voltage	500VDC					
MPPT Range	120-450V					
Nomial Output Voltage	220/230/240VAC					
Output Voltage Range	184-265VAC					
Nomial Output Current	25.5A/24.3A/23.3A					
Efficiency	Up to 93.5%					
Grid Input Voltage Range	120-280VAC					
Grid Frequency Range	50/60Hz(Auto Sensing)					
Maximum AC Charge Current	120A					
Maximum Solar Charge Current	120A					
Nominal DC Voltage	48VDC					
Battery Module	LFELI48100H-DJ-ESS020					
Number of Modules	1	2	3	4	5	6
Usable Energy [1]	5 kwh	10 kwh	15 kwh	20 kwh	25 kwh	30 kwh
Max Cont. Output Current [2]	100 A	100 A	100 A	100 A	100 A	100 A
Nominal Voltage	51.2 V					
Operating Voltage	43.2-58.4 V					
Operating Temperature	-10°C to +50°C					
Battery Cell Technology	Lithium Iron Phosphate					
Communication	CAN / RS485					
Enclosure Protection Rating	IP55					
Round-Trip Efficiency	95%					
Scalability [3]	Max. 64 Modules in Parallel (320 kWh)					
	UN38.3					
Applications	ON Grid + Backup / OFF Grid					

LeoEco Stackable Power Bank (HV)

LFELI307100H-DJ030 307V100A



High Efficiency

Max. efficiency 100%



Easy installation

45 Kg Battery modules



Safe and Reliable

Lithium iron phosphate battery cells



Perfect Compatibility

Work with leading branded inverters

Product Introduction

- 

LFP Battery , Safe and long Cycle life
- 

Supports off-grid and grid-connected scenarios
- 

Stackable design , easy installation
- 

High voltage solution makes higher conversion efficiency
- 

Compatible with a variety of mainstream inverter

[⚡] Battery Module

- 5.12 kWh per Module
- Modular and Stack Installation Design to simplify the maintenance
- Connect up to 64 module in parallel for a maximum size of 320 kWh.

Home Energy Storage (Stackble Battery)



Flexible, Efficient, Simple



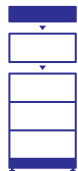
Plug Connection

No Additional Wiring Required



5-60KWH

Tailored Sizing for Each Application



Extend Anytime

Easily Adapts to New Requirements



High Power

Power for Every Application

Technical Parameters

Battery Module	LE020	LE025	LE030
Usable Energy (kWh)*1	20.45	25.6	30.72
Number of Modules	4	5	6
Cell Type	LFP(LiFePO4)		
Nominal Voltage (V)	204.8	256	307.2
Operating Voltage Range (V)	179.2 ~ 233.6	224 ~ 292	268.8 ~ 350.4
Nominal Dis- / Charge Current (A)*2	50		
Operating Temperature Range (°C)	Charge: 0°C ~ +50°C; Discharge: -10°C ~ +50°C		
Communication	CAN/RS485		
Weight (kg)	186	238	290
Dimensions (W × H × D mm)	1000*360*820	1000*360*1020	1000*360*1220
Ingress Protection Rating	IP55		
Round-Trip Efficiency	≥95%		
Applications	ON Grid + Backup / OFF Grid		

LeoEco Stackable Power System (HV)

LFELI307100H-ESS030 307V100A



High Efficiency

Max. efficiency 100%



Easy installation

45 Kg Battery modules



Safe and Reliable

Lithium iron phosphate battery cells



Perfect Compatibility

Work with leading branded inverters

Product Introduction

- Scalable from 5 kWh to 320 kWh
- Self-Consumption Optimization
- Maximum Flexibility for any Applications with up to 64 Modules Connected in Parallel
- Integrated with inverter to avoid the compatibility problem

- LFP battery, safest and long cycle life
- Stackable design,effortlessly installation
- High voltage solution makes higher conversion energy efficiency.
- Support 3 Phase Output

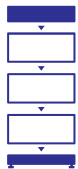
Battery Module

- 5.12 kWh per Module
- Modular and Stack Installation Design to simplify the maintenance
- Connect up to 64 module in parallel for a maximum size of 320 kWh.

Home Energy Storage (Stackble Battery)

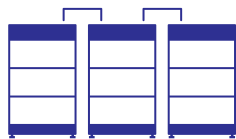


Flexible, Efficient, Simple



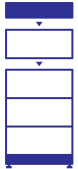
Plug Connection

No Additional Wiring Required



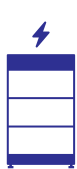
5-60KWH

Tailored Sizing for Each Application



Extend Anytime

Easily Adapts to New Requirements



High Power

Power for Every Application

Technical Parameters

Item	Parameters		
Maximum Photovoltaic Input power	15KW		
Rated Photovoltaic DC input voltage	620V		
MPPT operating voltage range	200-950V		
MPPT Quantity	2		
Maximum Photovoltaic Input Current	15A/15A		
Rated Output Power to Grid	10KW		
Rated Voltage	3L/N/PE; 220/380V;230/400V;240/415V		
Frequency of Grid	50/60Hz		
Maximum Output Current to Grid	16.5A		
Battery Voltage Range	135-750V		
Maximum Battery Charge/Discharge Current	25A/25A		
Rated Output Power to Load	10KW		
Rated output voltage to Load	3L/N/PE; 220/380V;230/400V;240/415V		
Maximum Output Current to Load	16.5A		
Battery Module	LE020	LE025	LE030
Usable Energy (kWh)*1	20.45	25.6	30.72
Number of Modules	4	5	6
Cell Type	LFP(LiFePO4)		
Nominal Voltage (V)	204.8	256	307.2
Operating Voltage Range (V)	179.2~233.6	224~292	268.8~350.4
Nominal Dis- / Charge Current (A)*2	50		
Operating Temperature Range (°C)	Charge: 0°C ~ +50°C; Discharge: -10°C ~ +50°C		
Communication	CAN/RS485		
Weight (kg)	186	238	290
Dimensions (W × H × D mm)	1000*360*820	1000*360*1020	1000*360*1220
Ingress Protection Rating	IP55		
Round-Trip Efficiency	≥95%		
Applications	ON Grid + Backup / OFF Grid		

Industrial & Commercial Battery Energy Storage Solution



All In One Battery Storage Cabinet



Photovoltaic
Energy Storage



Wind Power
Energy Storage



Industrial And
Commercial Application



Rural Areas
Without Electricity

Product Feature

Flexible configuration

- All in one design, high integration
- Compact size, high power density

Optimal algorithm

- Optimal Compatibility Design of PCS and cell cluster voltages
- On-demand deployment with automatic peak-load and valley- filling operation

High efficiency and stabability

- Max.system efficiency 90%
- High-efficiency three-level topology

Safety and reliable

- Support coordination of BMS and EMS
- System multiple classes protection

All In One Battery Storage Cabinet



AC parameter	
Rated AC power	100kW
Wiring connection	3P3W
AC overload capacity	110kW
Allowable grid voltage	380/400 (-15%~10%)Vac
Allowable grid freq.	50/60 (-2.5~2.5)Hz
Total current harmonic distortion rate	≤3%
Power factor	0.99/-1~1
Battery side parameter	
Cell type	LFP 280Ah
Battery system configuration	1P224S
Rated voltage	716.8V
Battery voltage range	627.2~795.2V
Battery energy	200kWh
System parameter	
Noisy	< 75dB
Protection rate	IP54
Allowable environment temp.	-20~60℃
Cooling method	Fan
Allowable humidity	0~95% (No condensation)
Cabinet size(WxHxD)	1700*2200*1000 mm
Allowable Altitude	3000m (derated over 3000m)
Cabinet weight	3.5tons
Max.system efficiency	90%
Communication parameter	
Comms.interface	RS 485, Ethernet, CAN
Comms.protocol	Modbus TCP/RTU, CAN2.0

LEOCH Containerized Energy Storage System



Photovoltaic Energy Storage



Wind Power Energy Storage



Industrial And Commercial Application



Rural Areas Without Electricity

Product Feature

Flexible configuration

- All in one design , high integration
- Compact size, high power density

Commercial and Industrial application

- Versatile application scenarios,improve quality of power supply

High efficiency and stabability

- Max.system efficiency 90%
- High-efficiency three-level topology

Safety and reliable

- Support coordination of BMS and EMS
- System multiple classes protection

LEOCH Containerized Energy Storage System



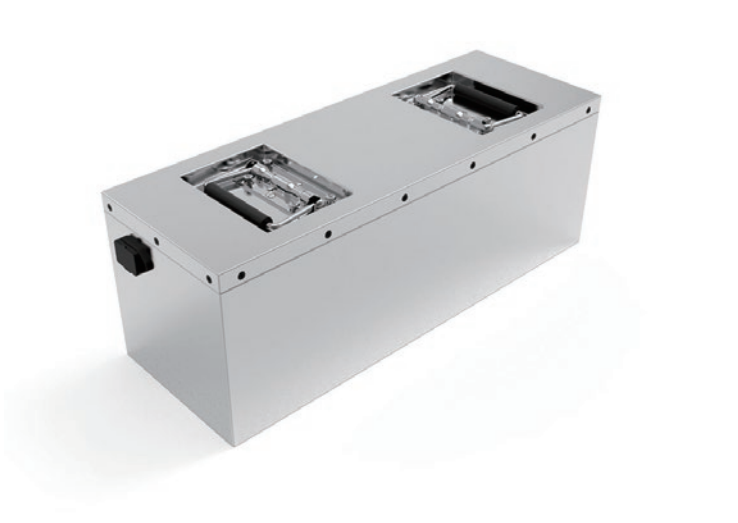
Model	LEO2000KWH	LEO2400KWH	LEO2800KWH	LEO3200KWH
Inverter Type	Hybrid Inverter	Hybrid Inverter	Hybrid Inverter	Hybrid Inverter
Rated Battery Capacity(standard)	2000KWh	2400KWh	2800KWh	3200KWh
Utility Voltage Range	380V/360V-440Vac; 480V/432V - 528Vac 50/45~55Hz; 60/55~65Hz			
AC (Off Grid)	AC400V, 3W+PE, 50/60HZ			
Battery system structure	BMM/BCM/EMS ;			
DC Side Volt.Range	600-900VDC			
Battery Racks	Steel Racks	Steel Racks	Steel Racks	Steel Racks
Design Life	15 years OR 6000cycles@25°C80%DOD 0.5CP			
Rated rate	≤0.5CP			
Data Monitor	Wifi Monitor/4G Terminal Monitor			
Installation type	plug-and-play			
Working temperature	-20°C~55°C			
Protection level	IP54			
Packing base	Standard container			
Fire Suppression	HFC-EA			
Max round-up efficiency	90%			
Noisy(dB)	<75			
Cooling method	HVAC			
Altitude	5000m(derate at over 3000m)			
Wiring type	3W+PE			
BMS comms. type	RS485/CAN			
EMS comms type	RS485, TCP/IP, Ethernet			

Motive Power





Model	LFeLi-4860	LFeLi-4880	LFeLi-48100GC1
Rated Capacity (5HR)	60 Ah	80 Ah	100 Ah
Nominal Voltage	51.2 V	51.2 V	51.2 V
Discharge Ending Voltage	40.0 V	40.0 V	40.0 V
Charging Limited Voltage	58.4V	58.4V	58.4V
Max. Charging Current	30 A	40 A	50 A
Max. Continue Discharging Current	60A	80A	100A
Weight	Approx. 30Kg	Approx. 43Kg	Approx. 43Kg
Display	Optional	Optional	Optional
Parallel Connection	w/o	w/o	Parallel connection is optional (up to 16P)
Dimensions (W*D*H) mm (inches)	540 * 250 * 360	540 * 250 * 360	540 * 250 * 360
Communication	CAN		
Design life	More than 10 years		
Cycle Life	More than 3000 cycles at 80% DOD 80%		
IP Class	IP54		
Outer Package Material	Black bake lacquer steel case		
Operating Temperature	Charging: 0°C to + 55°C Discharging: -20°C to + 60°C Storage: -20°C to +60°C		



Specification	48V 20Ah	48V 40Ah
L(mm)	278	475
W(mm)	165	165
H(mm)	172	172
Nominal Voltage(V)	48	48
Charge Current(A)	10	20
Charge Limit(V)	54	54
Discharge Current(A)	20	40
E.O.V(V)	40	40