The final interpretation right belongs to Golen Power Technology Co., Ltd.

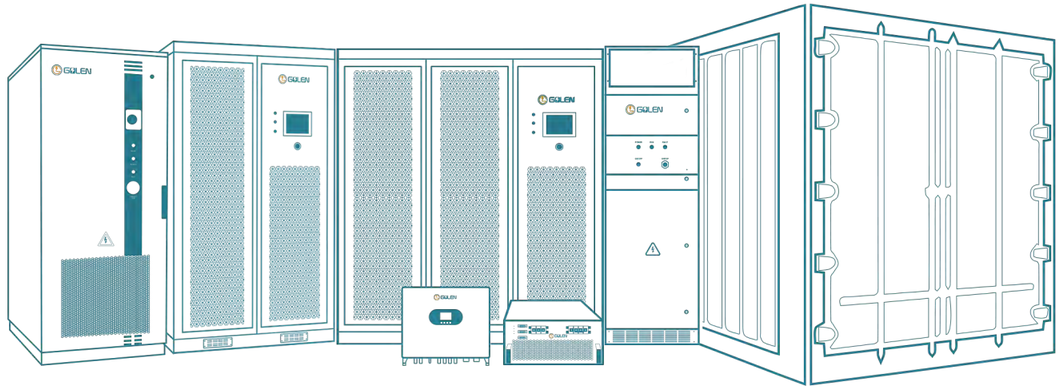
Smart Solar & Storage Zero-Carbon Future

Golen Power Technology Co.,Ltd.

Add: No.24, Xuefu Road, Jiangbei New Area, Nanjing, China
Factory: No.18 Wen'an Road, Chahe Economic Development Zone, China
Tel:0086-25-58186239
E-mail:overseas@golenpower.com
Web:www.golenpower.com

LinkedIn　Facebook　B2B Website

GOLEN POWER



INTELLIGENT ENERGY STORAGE SERIES PRODUCTS

2026 V 1.4

CATALOGUE

COMPANY PROFILE

Golen Power Technology Co., Ltd. is a national high-tech enterprise located in Jiangbei New Area, Nanjing. Golen focuses on the R&D, production, and sales of PCS, Hybrid Inverters, Energy Storage Systems (ESS), and Microgrid Systems, while also engaging in the investment, development, and construction of photovoltaic and energy storage power plants.

The company operates an R&D and manufacturing base of over 100,000 m². With an annual capacity exceeding 5GW+15GWh, its products are distributed in more than 100 countries and regions across Europe, the Americas, Oceania, Africa, the Middle East, and Southeast Asia. To deliver efficient, localized technical support and services, the company has established overseas branches in Los Angeles, Warsaw, Tokyo, and Riyadh, forming a global service network that continuously provides high-quality solutions and services to clients worldwide.

In addition, Golen has established strategic partnerships with several leading universities, including NUAA, NUIST, and NJUIT. Together, they have set up doctoral research workstations and co-developed talent cultivation platforms dedicated to the transformation of scientific achievements in the new energy sector, providing solid support for continuous innovation and breakthroughs in energy storage technologies and microgrid systems.






100,000+ m² TOTAL AREA

2 PRODUCTION BASES

5GW+15GWh ANNUAL CAPACITY

100+ PATENTS

>6% R&D INVESTMENT

DEVELOPMENT HISTORY

2017

Golen Power Technology Co., Ltd. was established with a 20,000m² manufacturing facility;

Specializing in the R&D, production, and sales of energy storage related products;

Gathered a team that has nearly 20 years of experience in the photovoltaic and energy storage industry

2018

Launched 30~60kW utility frequency hybrid inverter;

Won the "Top Ten Most Popular Energy Storage Inverter Brands" award

2019

Launched 30~50kw high-frequency hybrid inverter, 50~630kW energy storage bidirectional converter;

Established a new R&D base of 8,000m²

2021

Launched 10~20kW

household hybrid inverter;

Won the "Best Energy Storage Inverter Supplier" award;

Won the "Best Energy Storage System Solution" project award

2022

Launched high-voltage stacking all-in-one products;

Launched the liquid-cooled container energy storage system;

Launched the direct-flexible series energy storage hybrid inverter;

Recognized as "High-Tech

Enterprise";

Establishing "a doctoral workstation";

Won the "Top Ten PCS Suppliers in China" award

2023

Established the holding subsidiary Golen Energy Technology Co., Ltd.;

Launched grid-forming PCS and outdoor cabinet energy storage systems;

Won the "Best PCS Supplier in China's Energy Storage Industry in 2023" award;

Won the title of "Top Ten Brands and Top Ten PCS Suppliers in China's Energy Storage Industry in 2023"

2024

Launched 186kW-255kW high-frequency bidirectional energy storage converter;

Launched large container energy storage systems;

Launched 30~135kW high-frequency bidirectional energy storage converter;

Expanded a new production base of 6,000 m²;

Awarded as a Jiangsu Province Specialized and

Innovative Enterprise;

Won the "Best PCS Supplier Award for China's Energy Storage Industry in 2024";

Won the "2024 China New Energy Storage Industry New Quality Productivity PCS Innovation Award";

Won the "2024 Best Energy Storage Small and Medium Power Bidirectional Converter Supplier Award"

2025

Launched Microgrid System ESS Solutions, Strengthening Brand Awareness;

Won the "Jiangsu Provincial

Renewable Energy Science and

Technology Progress Award";

Won the "APVIA Corporate Technology Achievement Award";

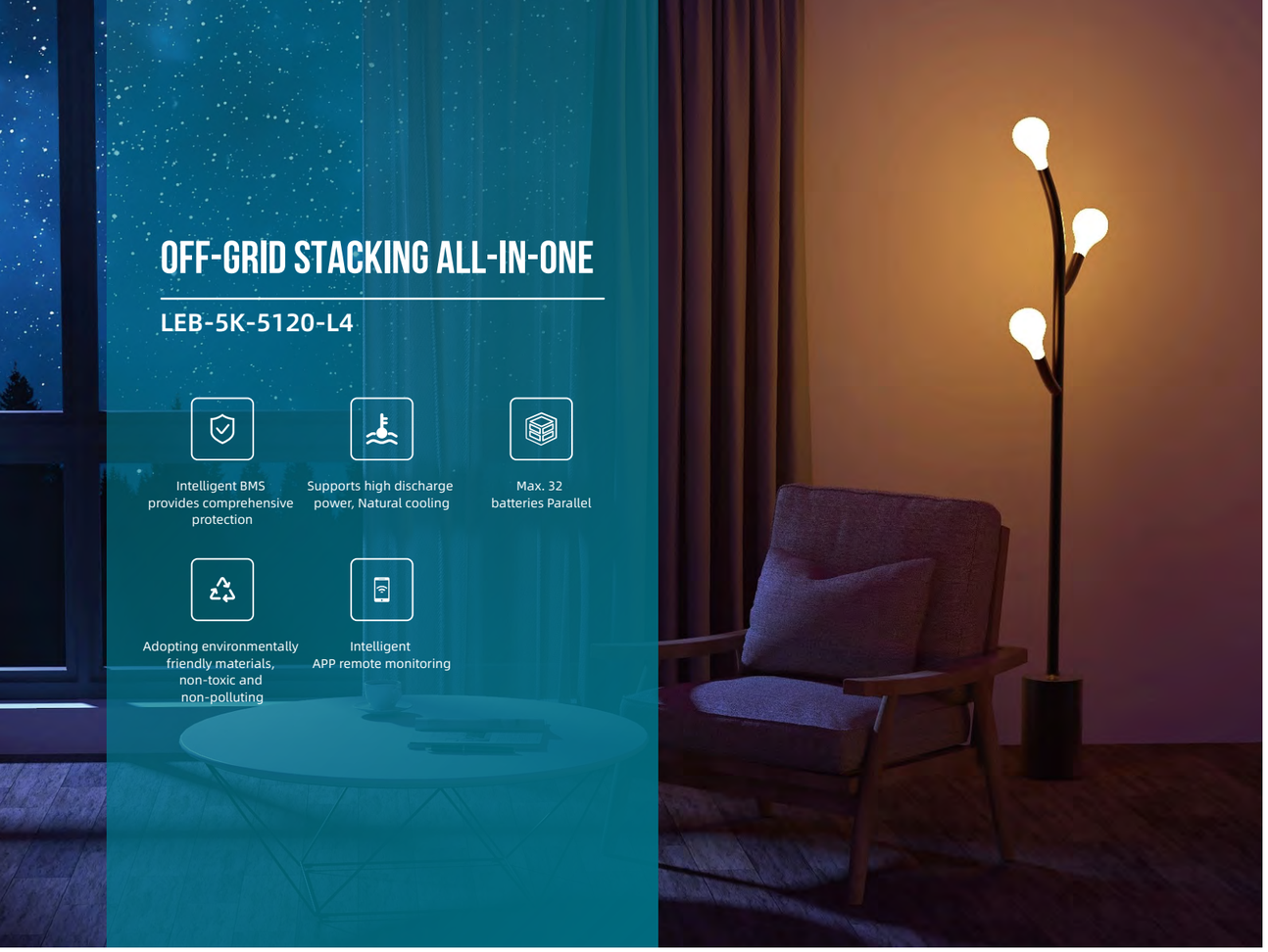
Won the "SNEC ESS Innovation

Enterprise Award";

Won the "CIES China Energy Storage Industry Best PCS Supplier Award"

QUALIFICATIONS AND HONORS

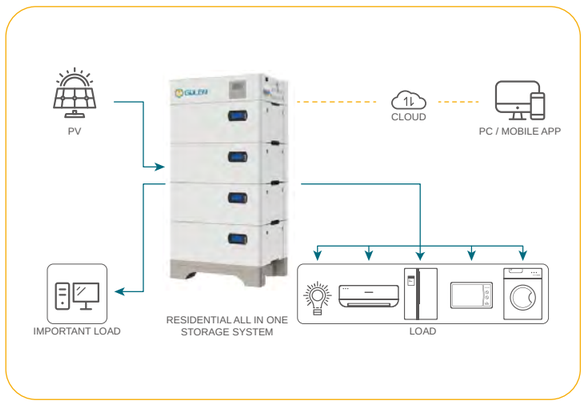
- Jiangsu Province High-tech Enterprise
- Doctoral Workstation for NJUIT
- The First Batch Council Member Unit of Jiangsu Energy Storage Industry Association
- Member Unit of Jiangsu Energy Industry Association
- Executive Director Unit of Jiangsu Public Relations Association Comprehensive Energy Services Committee
- 2025 Jiangsu Provincial Renewable Energy Science and Technology Progress Award
- 2025 CIES China Energy Storage Industry Best PCS Supplier Award
- Executive Director Unit of Jiangsu Renewable Energy Industry Association
- 2024 Outdoor Cabinet Energy Storage System Technology Innovation Award
- 2024 China Energy Storage Industry Best PCS Supplier Award
- 2024 China New Energy Storage Industry New Quality Productivity PCS Innovation Award
- 2024 Best Energy Storage Small and Medium Power Bidirectional Converter Supplier Award
- 2023 China Energy Storage Industry Best PCS Supplier Award
- 2023 China Energy Storage Industry Top 10 Brands and Top 10 PCS Suppliers
- 2022 China Energy Storage Industry Top 10 Brands and Top 10 PCS Suppliers
- 2021 Best Energy Storage Small and Medium Power Bidirectional Converter Supplier Award
- Best of 2021 Solar Storage & EV Charging Integrated Solution Project Award
- 2019 CIES China Energy Storage Industry Best PCS Supplier Award
- 2018 Top 100 Enteprise of Leading the Renewable Energy Pioneers in China: Single Top PV Plant Investment & EPC Brand Award
- 2018 Top 100 Enteprise of Leading the Renewable Energy Pioneers in China: New Energy ESS Application Brand Award



OFF-GRID STACKING ALL-IN-ONE

LEB-5K-5120-L4

- Intelligent BMS provides comprehensive protection
- Supports high discharge power, Natural cooling
- Max. 32 batteries Parallel
- Adopting environmentally friendly materials, non-toxic and non-polluting
- Intelligent APP remote monitoring



Model	LEB-5K-5120-L4
PV Input	
PV Input Voltage Range [V]	120~450
Max. PV Array Open Circuit Voltage [V]	500
Max. PV Array Power [W]	5000
Max. PV Input Current [A]	18
MPPT Working Voltage Range [V]	280~360
AC Input	
Rated Input Voltage [V]	230
Selectable Voltage Range [V]	170~280Vac (UPS); 120~280Vac (Home Appliances)
Max. Input Voltage [V]	300
Rated Input Frequency [Hz]	50
Efficiency (Line Mode)	>95% (Pure resistive load and battery fully charged status)
EPS Load Parameters	
Rated Output Power [VA]	5000
Max. Output Power [VA]	10000
Rated Output Voltage [V]	230±5%
Output Frequency [Hz]	50
Transfer Time	10 ms (UPS); 20 ms (Home Appliances)
Battery Parameters	
Battery Type	Lithium Battery
Single Module Technical Parameters	3.2V/100AH
Module Number	1~4 (Optional)
Rated System Energy [kWh]	5.12~20.48
Rated System Voltage [V]	51.2
System Voltage Range [V]	44.8~58.4
Max.(Dis) Charging Current [A]	100
General Parameters	
Communication Interface	RS232/USB/RS485
Cooling Method	Air Cooling
Maximum Operating Altitude	4000m (>3000m derating)
Noise [dB]	<50
Ingress Protection (IP) Rating	IP20
Humidity	5% ~ 95% Relative Humidity (Non-condensing)
Operating Temperature [°C]	-10~50
Weight [kg]	≈210
Dimensions (L *W *H) [mm]	695*458*1020

OFF-GRID STACKING ALL-IN-ONE

LEB-5K-5120-L2

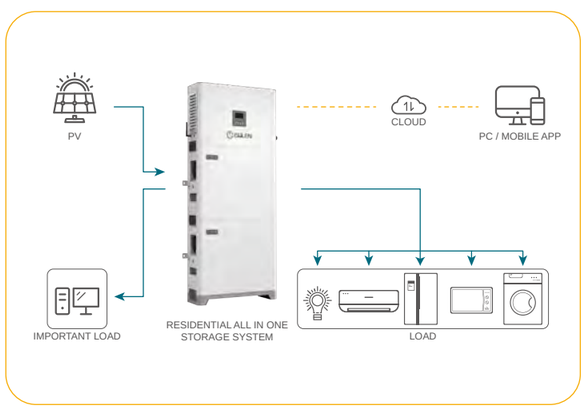
Intelligent BMS provides comprehensive protection

Supports high discharge power, Natural cooling

Max. 32 batteries Parallel

Adopting environmentally friendly materials, non-toxic and non-polluting

Intelligent APP remote monitoring



Model	LEB-5K-5120-L2
PV Input	
PV Input Voltage Range [V]	120~450
Max. PV Array Open Circuit Voltage [V]	500
Max. PV Array Power [W]	5000
Max. PV Input Current [A]	18
MPPT Working Voltage Range [V]	280~360
AC Input	
Rated Input Voltage [V]	230
Selectable Voltage Range [V]	170~280Vac (UPS); 120~280Vac (Home Appliances)
Max. Input Voltage [V]	300
Rated Input Frequency [Hz]	50
Efficiency (Line Mode)	>95% (Pure resistive load and battery fully charged status)
EPS Load Parameters	
Rated Output Power [VA]	5000
Max. Output Power [VA]	10000
Rated Output Voltage [V]	230±5%
Output Frequency [Hz]	50
Transfer Time	10 ms (UPS); 20 ms (Home Appliances)
Battery Parameters	
Battery Type	Lithium Battery
Single Module Technical Parameters	3.2V/100AH
Rated System Energy [kWh]	10.24
Rated System Voltage [V]	51.2
System Voltage Range [V]	44.8~58.4
Max.(Dis) Charging Current [A]	100
General Parameters	
Communication Interface	RS232/USB/RS485
Cooling Method	Air Cooling
Maximum Operating Altitude	4000m (>3000m derating)
Noise [dB]	<50
Ingress Protection (IP) Rating	IP20
Humidity	5%~95% Relative Humidity (Non-condensing)
Operating Temperature [°C]	-10~50
Weight [kg]	≈101
Dimensions (L x W x H) [mm]	550*160*1400

OUTDOOR ESS CABINET (AIR-COOLING)

LES-40W20-PS

- Support three-phase 100% unbalanced load
- Support remote upgrade & cloud operations
- Intelligent dehumidifcation to eliminate condensation risk
- Flexible expansion with easy installation and maintenance
- Maintenance-free air-cooled design
- High-power photovoltaic access design up to 30kW
- Support multiple machines in parallel for more flexible application

Model	LES-40W20-PS
Battery Parameters	
Charge/Discharge Rate	0.5C
Rated Cell Capacity [Ah]	100
Rated Voltage [V]	409
Operating Voltage Range [V]	358~467
Rated Energy [kWh]	40
Configuration	1P128S
AC Parameters (On-Grid)	
Rated Output Power [kW]	20
Rated Output Current [A]	29
Max Output Power [kVA]	22
Max Output Current [A]	32
Rated Grid Voltage [V]	3W/N/PE, 220/380, 230/400
Rated Grid Frequency [Hz]	50
Power Factor	1 (0.9 leading~0.9 lagging)
THDi	≤3% (@ Rated power)
AC Parameters (Off-Grid)	
Rated Output Power [kW]	20
Rated Output Current [A]	29
Rated Output Voltage [V]	3W/N/PE, 220/380, 230/400
Rated Output Frequency [Hz]	50
Switching Time [ms]	<20
PV Parameters	
Max. PV Input Power [kWp]	30
Max. PV Input Voltage [V]	1000
No. of MPPTs / Max. Strings per MPPT	2/2
Operating Voltage Range [V]	200~960
Max. PV Input Current [A]	2*25
Max. PV Short-Circuit Current [A]	2*30
General Parameters	
IP Rating	IP54
Cooling Method	Air Cooling
Fire Protection System	Aerosol
Relative Humidity	0~95%, Non-condensing
Operating Temperature Range [°C]	-20~+50
Max Altitude [m]	4000 (>2000 Derating required)
Communication Method	RS485, Ethernet
Communication Protocol	Modbus
Weight [kg]	≈1000
Dimensions(W*D*H) [mm]	1395*1000*1800

OUTDOOR ESS CABINET (AIR-COOLING)

LES-112W50-PS

Support three-phase 100% unbalanced load

Support remote upgrade & cloud operations

Intelligent dehumidifcation to eliminate condensation risk

Flexible expansion with easy installation and maintenance

Maintenance-free air-cooled design

High-power photovoltaic access design up to 30kW

Support multiple machines in parallel for more flexible application

PV Plant

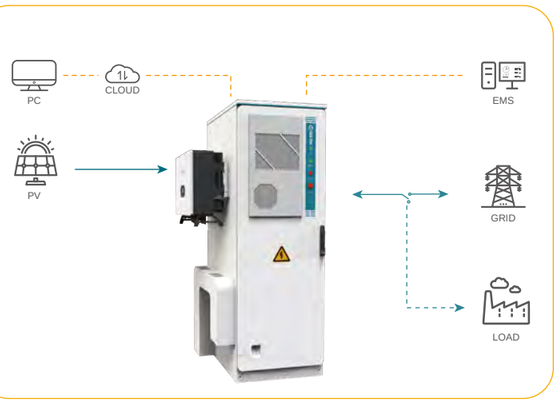
Wind Power Energy Storage

C&I ESS

Grid-Side ESS

PV+ESS+Charging

Microgrid



Model	LES-112W50-PS
Battery Parameters	
Charge/Discharge Rate	0.5C
Rated Cell Capacity [Ah]	314
Rated Voltage [V]	358
Operating Voltage Range [V]	313~408
Rated Energy [kWh]	112
Configuration	1P112S
AC Parameters (On-Grid)	
Rated Output Power [kW]	50
Rated Output Current [A]	72
Max Output Power [kVA]	55
Max Output Current [A]	80
Rated Grid Voltage [V]	3W/N/PE, 220/380,230/400
Rated Grid Frequency [Hz]	50
Power Factor	1 (0.8 leading~0.8 lagging)
THDi	<3% (@ Rated power)
AC Parameters (Off-Grid)	
Rated Output Power [kW]	50
Rated Output Current [A]	72
Rated Output Voltage [V]	3W/N/PE, 220/380,230/400
Rated Output Frequency [Hz]	50
Switching Time [ms]	<20
PV Parameters	
Max. PV Input Power [kWp]	100
Max. PV Input Voltage [V]	1000
No. of MPPTs / Max. Strings per MPPT	4/2
MPPT Operating Voltage Range [V]	200~950
Max. PV Input Current [A]	4*40
Max. PV Short-Circuit Current [A]	4*50
Generator Input	
Max. Input Power [kVA]	60
Max. Input Current[A]	80
Working Phase	3W/N/PE
Rated Input Voltage [V]	220/380 ,230/400
Rated Input Frequency [Hz]	50
General Parameters	
IP Rating	IP54
Cooling Method	Air Cooling
Fire Protection System	Aerosol, Water-based Fire Protection
Relative Humidity	0~95%, Non-condensing
Operating Temperature Range [°C]	-20~+50
Max Altitude [m]	4000 (>2000 Derating required)
Communication Method	RS485, Ethernet
Communication Protocol	Modbus
Weight [T]	≈1.3
Dimensions(W*D*H) [mm]	750*1150*2250

OUTDOOR ESS CABINET (AIR-COOLING)

LES-200W100 LES-215W100

- Support three-phase 100% unbalanced load
- Support remote upgrade & cloud operations
- Intelligent dehumidifcation to eliminate condensation risk
- Flexible expansion with easy installation and maintenance
- Maintenance-free air-cooled design

【Fan Cooling System】

Model	LES-200W100	LES-215W100
Battery		
Battery Type	LiFePO4	
Rated Charge/Discharge Performance	0.5C	
Rated Voltage [V]	716.8	768
Operating Voltage Range [V]	627.2~817.6	672~876
Cell Rated Capacity [Ah]	280	280
Rated Capacity [kWh]	200.7	215.04
Composition	1P224S	1P240S
AC Output (Grid Side)		
Rated Output Power [kW]	100	
Max. Output Current [A]	159	
Rated Grid Voltage [V]	3/N/PE,230/400	
Rated Grid Frequency [Hz]	50	
Power Factor Adjustable Range	1(0.9 Leading~0.9 Lagging)	
THDi	<3%（@ Rated Power）	
AC Output (Load Side)		
Rated Output Power [kW]	100	
Max. Output Current [A]	159	
Rated Output Voltage [V]	3/N/PE,230/400	
Rated Output Frequency [Hz]	50	
Unbalanced Load Capacity	100%	
General Parameters		
Ingress Protection	IP54	
Battery Cooling Method	Air conditioning cooling	
Relative Humidity	0~95%,Non-condensing	
Temp. Range [℃]	-20~+50	
Altitude [m]	4000（＞2000 Derating）	
Communication	RS485/CAN	
Communication Protocol	Modbus/IEC104	
Weight [kg]	≈2250	≈2450
Dimension (W*D*H) [mm]	1550*1235(1050)*2264	
Delivery Method	Integral transportation	

OUTDOOR ESS CABINET (LIQUID-COOLING)

LES-241L120/261L130

Support three-phase 100% unbalanced load

Floor space < 1.4㎡

Support remote upgrade & cloud operation and maintenance

PACK + cabinet level fire control

Intelligent dehumidifcation to eliminate condensation risk

PACK-level liquid-cooled runner desgin for high cooling efficiency

Single cabinet capacity up to 261KWh

Flexible expansion, easy to install and maintain

PV Plant

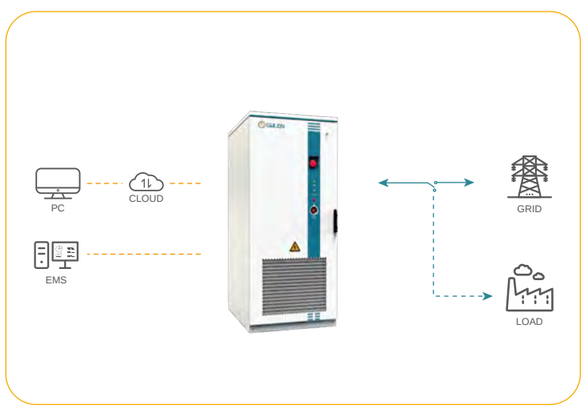
Wind Power Energy Storage

C&I ESS

Grid-Side ESS

PV+ESS+Charging

Microgrid



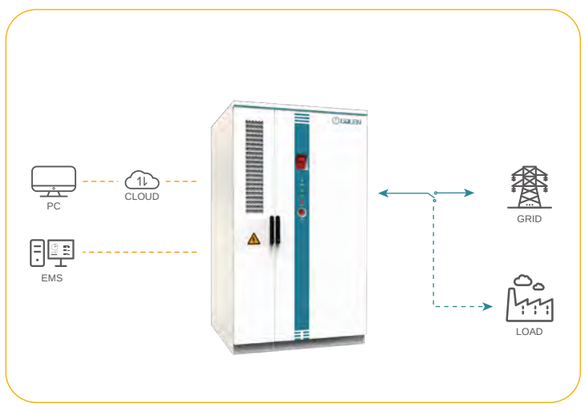
【Liquid Cooling System】

Model	LES-241L120	LES-261L130
Battery Parameters		
Charge/Discharge Rate	0.5C	
Rated Cell Capacity [Ah]	314	
Rated Voltage [V]	768	832
Operating Voltage Range [V]	684~864	728~949
Rated Energy [kWh]	241	261
Configuration	1P240S	1P260S
AC Parameters (On-Grid)		
Rated Output Power [kW]	120	130
Rated Output Current [A]	173	187
Rated Grid Voltage [V]	3W/N/PE，230/400	
Rated Grid Frequency [Hz]	50	
Power Factor	1 (0.9 leading~0.9 lagging)	
THDi	<3% (@ Rated power)	
AC Parameters (Off-Grid)		
Rated Output Power [kW]	120	130
Rated Output Current [A]	173	180
Rated Grid Voltage [V]	3W/N/PE，230/400	
Rated Output Frequency [Hz]	50	
Unbalanced Load Capability	100%	
General Parameters		
IP Rating	IP55	
Cooling Method	Liquid Cooling	
Fire Protection System	Aerosol, Water-based Fire Protection	
Relative Humidity	0~95%, Non-condensing	
Temp. Range [℃]	-20~+50	
Max Altitude [m]	4000 (>2000 Derating required)	
Communication Method	RS485, Ethernet	
Communication Protocol	Modbus	
Weight [T]	≈2.5	≈2.7
Dimensions(W*D*H) [mm]	1000*1330*2350	1000*1370*2350
*Cetifications	EN62477-1: 2012； EN IEC 61000； EN 50549-1/10; NC RfG, PTPiREE, VDE, CEI 0-21, C10/11, NTS, EIFS , TOR， G99， NF EN 50549-1:2019, NF EN 50549-10:2022, EN 50549-1:2019+A1:2023,	

OUTDOOR ESS CABINET (LIQUID-COOLING)

LES-372L186 LES-418L209

- Support three-phase 100% unbalanced load
- PACK level liquid cooled runner design for heat dissipation
- Support remote upgrade & cloud operation and maintenance
- PACK + cabinet level fire control
- Intelligent dehumidifcation to eliminate condensation risk
- Single cabinet capacity up to 418KWh
- Flexible expansion, easy to install and maintain



【Liquid Cooling System】

Model	LES-372L186	LES-418L209
Battery		
Battery Type	LiFePO4	
Rated Charge/Discharge Performance	0.5C	
Rated Voltage [V]	1331.2	
Operating Voltage [V]	1164.8~1497.6	
Cell Rated Capacity [Ah]	280	314
Rated Capacity [kWh]	372.73	417.99
Composition	1P416S	1P416S
AC Output (On Grid)		
Rated Output Power [kW]	186	209
Max. Output Current [A]	171	192
Rated Grid Voltage [V]	3/PE,690	
Rated Grid Frequency [Hz]	50	
Power Factor	1(0.9 Leading~0.9 Lagging)	
THDi	<3%(@Rated Power)	
General Parameters		
Ingress Protection	IP54	
Cooling Method	Battery Compartment (Liquid Cooled)、Electrical Cabin(Air Cooled)	
Battery Cooling Method	Liquid cooling system	
Fire Protection System	Aerosol/Perfluorohexanone	
Relative Humidity	0~95%,Non-condensing	
Temp. Range [℃]	-20~+50	
Altitude [m]	4000(> 2000 Derating)	
Communication	RS485、CAN	
Communication Protocol	Modbus、IEC104	
Weight [kg]	≈3600	≈3750
Dimension (W×D×H) [mm]	1325*1375*2300	1325*1375*2300
Delivery Method	Integral transportation	

10FT CONTAINER ENERGY STORAGE SYSTEM

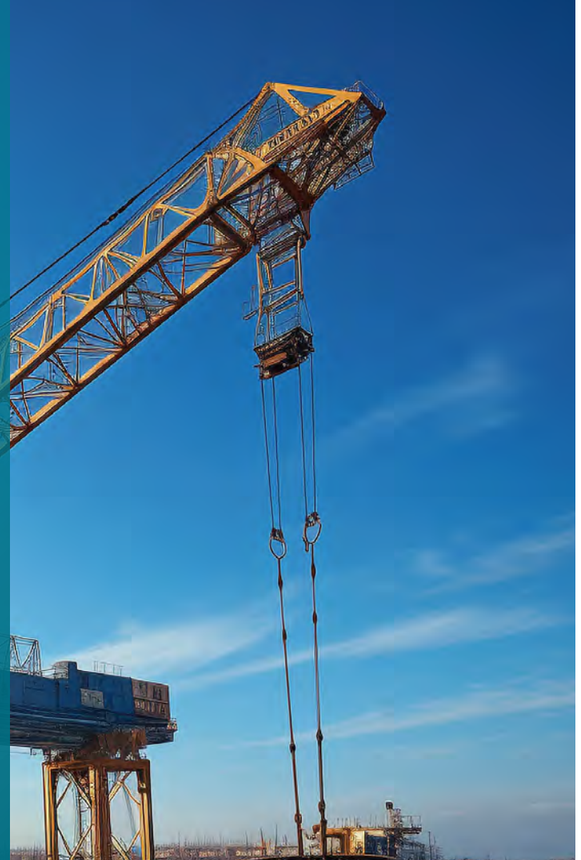
LES-H10-482L250C-S/LES-H10-723L250C-S

All-in-one design for easy transportation and installation, flexible deployment

Separation of electrical and battery compartments to prevent thermal runaway from spreading

Multiple capacity designs Meets the needs of multiple applications

Multiple quick-connect port design Meet the needs of different scenarios for quick connection



PV Plant

Wind Power Energy Storage

C&I ESS

Grid-Side ESS

PV+ESS+Charging

Microgrid

Model	LES-H10-482L250C-S	LES-H10-723L250C-S
Battery Parameters		
Charge/Discharge Rate	0.5C	
Rated Battery Cell Capacity [Ah]	314	
Rated Voltage [V]	768	
Operating Voltage Range [V]	684~864	
Rated Energy [kWh]	482	723
Configuration	2P240S	3P240S
AC Parameters (On Grid)		
Rated Output Power [kW]	250	
Rated Output Current [A]	360	
Rated Grid Voltage [V]	3W/N/PE,230/400	
Rated Grid Frequency [Hz]	50	
Power Factor	1 (0.9 leading to 0.9 lagging)	
THDi	≤3% (@ Rated power)	
AC Parameters (Off Grid)		
Rated Output Power [kW]	250	
Rated Output Current [A]	360	
Rated Output Voltage [V]	3W/N/PE, 230/400	
Rated Output Frequency [Hz]	50	
Unbalanced Load Capability	100%	
General Parameters		
Isolation Transformer	Yes	
IP Rating	IP54	
Cooling Method	Battery Compartment (Liquid-Cooled)/Electrical Compartment (Air-Cooled)	
Fire Suppression System	Aerosol, Water-based Fire Protection	
Relative Humidity	0~95%, Non-condensing	
Temp. Range [℃]	-20~+50	
Max. Operating Altitude [m]	4000 (>2000 Derating required)	
Communication Interface	RS485, Ethernet	
Communication Protocol	Modbus	
Weight [T]	≈9.2	≈10.8
Dimensions(W*D*H)[mm]	2991*2438*2896	

10FT CONTAINER ENERGY STORAGE SYSTEM

LBS-2508-HV-G10-EU

High Efficiency

High Balance

High Integration

Safe and Reliable

High Adaptability

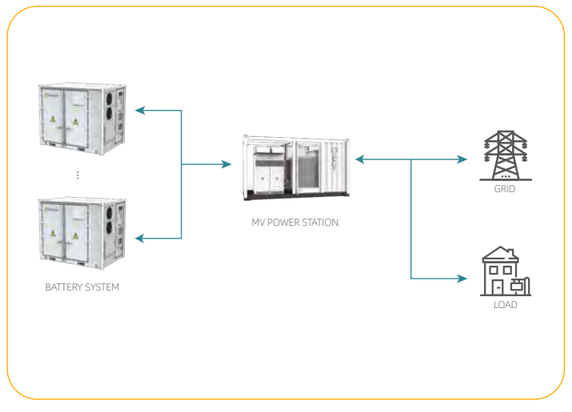
Wind Power Energy Storage

C&I ESS

Grid-Side ESS

PV+ESS+Charging

Microgrid



GOLEN

Model	LBS-2508-HV-G10-EU
DC Parameters	
Battery Cell Type	LFP/314Ah
Battery Configuration	6P416S
Rated Energy [kWh]	2508
Max. P-Rate	0.5P
Battery Rated Voltage [V]	1331.2
Battery Voltage Range [V]	1164.8~1497.6
Battery Cooling Method	Liquid Cooling
General Parameters	
IP Level	IP54
Anti-Corrosion	Default: C4 Optional: C5
Operating Temperature [℃]	-20~+50(derated above 45)
Relative Humidity	0 ~95%, Non-consendation
Highest Working Altitude [m]	4000(derated above 2000)
Fire Protection System	Default: Aerosol, Smoke, and Heat Detector, Ventilation System with Gas Detector, fire alarm control panel (FACP), Dry Pipe Fire Sprinkler
Communication Interface	Ethernet
Communication Protocol	Modbus TCP
Weight [T]	23
Dimension (W*D*H) [mm]	3420*2438*2896

20FT CONTAINER ENERGY STORAGE SYSTEM

DC Side_LBS-4180/5016-HV-G20
AC Side_LEG-2500K/3450K/5000K-UD-35

All-in-one design for easy transportation and installation, flexible deployment

Separation of electrical and battery compartments to prevent thermal runaway from spreading

Multiple capacity designs Meets the needs of multiple applications

Multi-protection design Higher security

PV Plant

Wind Power Energy Storage

C&I ESS

Grid-Side ESS

PV+ESS+Charging

Microgrid

GOLEN

Model	LBS-4180-HV-G20	LBS-5016-HV-G20
Battery		
Rated Charge/Discharge Performance	0.5C	
Battery Capacity [Ah]	314	
Battery Rated Voltage [V]	1331.2	
Operating Voltage Range [V]	1164.8~1497.6	
Rated Energy [kWh]	4179.97	5015.96
System Battery Configuration	10P416S	12P416S
General Parameters		
Ingress Protection	IP54/IP55	
Cooling Method	Liquid Cooling	
Fire Fighting System	Aerosol	
Relative Humidity	0~95%，Non-condensing	
Operating Temperature [℃]	-20~+50	
Altitude [m]	4000（>2000 Derating）	
Communication	CAN/RS485/Ethernet	
Communication Protocol	Modbus/IEC104/IEC61850	
Weight [T]	≈40	≈43
Dimension (W*D*H) [mm]	6058*2438*2896	
Product Certifications		
Certificates	IEC 62619,IEC 62477,IEC 63056,IEC 61000,UL 1973,UL 9540A,NFPA 855	
Safe Transportation	UN3536、UN38.3	

Model	LEG-2500K-UD-35	LEG-3450K-UD-35	LEG-5000K-UD-35
AC Side Parameters			
Rated Output Power [kW]	2500	3450	5000
Rated Output Voltage [kV]	6~35		
Rated Output Frequency [Hz]	50		
Power Factor	1 (0.9 Leading~0.9 Lagging)		
Transformer Parameters			
Rated Capacity [kVA]	2500	3450	5000
Voltage Transformation Ratio [kV/kV]	0.69/6~35		
Connection Group	DY11		
Transformer Type	Dry Type/Oil-immersed		
General Parameters			
Ingress Protection	IP54/IP55		
Cooling Method	Forced Air Cooling		
Relative Humidity	0~95%，Non-condensing		
Operating Temperature [℃]	-20~+50		
Altitude [m]	4000（>2000 Derating）		
Communication	CAN/RS485/Ethernet		
Communication Protocol	Modbus/IEC104/IEC61850		
Weight [T]	≈16	≈17	≈22.5
Dimension (W*D*H) [mm]	6058*2438*2896		12192*2438*2896

* Grid side voltage 6-35kV optional.The size and parameters of customized models are subject to change, and the latest information of our company shall prevail without further notice.

MODULAR PCS

LEG-100K/125K/135K-TL-P

Advanced three-level topology design
Maximum efficiency up to 98.5%

AC/DC dual power supply backup ensures control system power supply

Wide voltage DC design

Modular design, Supports multi-unit parallel connection

Microgrid

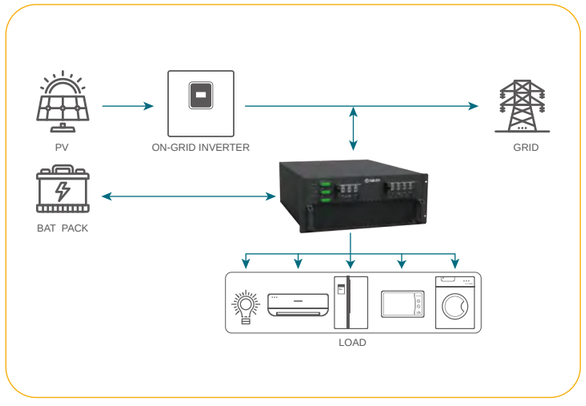
Communication Base Station

Factory

Farm

Hospital

Hotel



Model	LEG-100K-TL-P	LEG-125K-TL-P	LEG-135K-TL-P
DC Side			
DC Voltage Range [V]	650~950		
Number of Input Channels	1		
Battery Types	Lithium		
AC Side (On-Grid)			
Rated Power [kW]	100	125	135
Max. Power [kVA]	110	138	149
Max. Output Current [A]	159	198	215
Rated Grid Voltage [V]	3W/N/PE,230/400		
Rated Grid Frequency [Hz]	50		
THDi	<3%(@Rated Power)		
AC Side (Off-Grid)			
Rated Output Power [kW]	100	125	135
Max. Output Power [kVA]	110	138	149
Rated Output Voltage [V]	400		
Rated Output Frequency [Hz]	50		
THDu	<3%(@ Linear Load)		
Unbalanced Load Capacity	100%		
Efficiency			
Max. Efficiency	98.6%		
General Parameters			
Protection Function	DC Over-voltage Protection, DC Short Circuit Protection, AC Over-voltage Protection, Polarity Reversal Protection, Module Temperature Protection		
Isolation Transformer	None		
Protection Level	IP20		
Cooling Method	Air cooling		
Relative Humidity	0~95%,Non-condensing		
Operating Temperature [℃]	-30~+55		
Altitude [m]	4000(> 2000 Derating)		
Communication Interface	RS485		
Communication Protocol	Modbus		
Weight [kg]	≈50		≈60
Dimensions (W*D*H) [mm]	440*650*220		520*680*220

1500V MODULAR PCS

LEG-186K/215K-TL-P

Advanced three-level topology design with maximum efficiency up to 99%

Wide voltage DC design

Wide Voltage DC Design

Microgrid

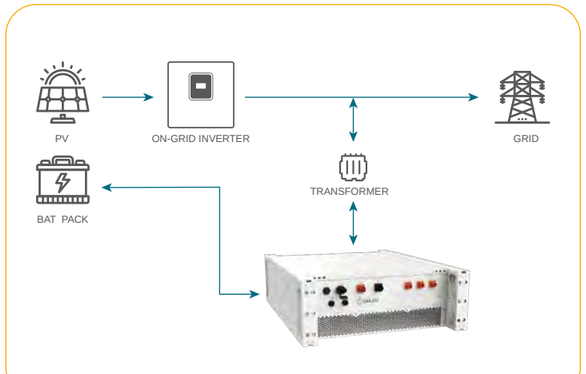
Communication Base Station

Factory

Farm

Hospital

Hotel

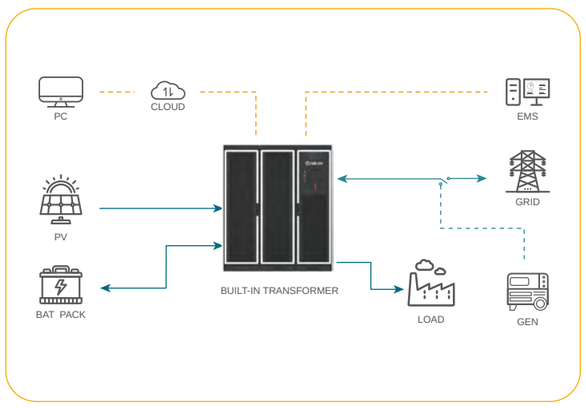


Model	LEG-186K-TL-P	LEG-215K-TL-P
DC Parameters		
Max. DC Voltage [V]	1500	
DC voltage Range [V]	1070~1500	
AC Parameters (On-Grid)		
Rated Output Power [kW]	186	215
Max. Output Power [kVA]	205	237
Max. Output Current [A]	172	198
Rated Grid Voltage	3W/PE,690Vac	
Rated Grid Frequency [Hz]	50	
THDi	≤3%(@Rated Power)	
DC Component	<0.5% In	
Protection function		
DC Overvoltage Protection	Yes	
DC Short Circuit Protection	Yes	
AC Overvoltage Protection	Yes	
Reverse Polarity Protection	Yes	
Module Temperature Protection	Yes	
Efficiency		
Max. Conversion Efficiency	99%	
General Parameters		
Isolation Transformer	None	
Protection Level	IP66	
Operating Temperature [℃]	-25~+60	
Relative Humidity	0~95%,Non-condensing	
Cooling Method	Air cooling	
Max. Altitude [m]	4000(> 2000 Derating)	
Communication Interface	RS485/Ethernet/CAN	
Communication Protocol	Modbus RTU	
Weight [kg]	≈100	
Dimensions (W*D*H) [mm]	750*270*760	

HYBRID INVERTER

LEI-50K/100K/250K/500K-TT

- Power frequency topology, Strong impact resistance
- AC and DC dual power backup ensures power supply to the control system
- Suitable for normal use in high altitude and cold areas
- Support seamless switching between on-grid and off-grid
- Integrated design, Internally integrated interfaces of photovoltaic, battery, grid, and load
- DC coupled design High system efficiency



【Power Frequency】
【Three-Phase Four-Wire】

GOLEN

Model	LEI-50K-TT	LEI-100K-TT	LEI-250K-TT	LEI-500K-TT
Battery				
Battery Voltage Range [V]	320~600	400~600	600~880	
Max. Charging Power [kW]	66	110	300/360	600/660/720
AC (On-Grid) Parameters				
Rated Output Power [kW]	50	100	250	500
Max. Output Power [kVA]	55	110	275	550
Max. Output Current [A]	79	158	397	793
Rated Grid Voltage [V]	3W/N/PE,230/400			
Rated Grid Frequency [Hz]	50			
THDi	<3%(@Rated Power)			
AC (Off-Grid) Parameters				
Rated Output Power [kW]	50	100	250	500
Max. Output Power [kVA]	55	110	275	550
Rated Output Current [A]	72	144	361	722
Rated Grid Voltage [V]	400			
Rated Grid Frequency [Hz]	50			
THDu	<3%(@ Linear Load)			
Overload Capacity	110% Long term,120% 1 minute			
Unbalanced Load Capacity	100%			
Photovoltaic Input				
Max. PV Input Voltage [V]	850		880	
Max. PV Power [kW]	60	90	300/360	600/660/720
MPPT Number of Channels	3	3	5/6	10/11/12
MPPT Voltage Range [V]	600~850		250~850	
System Data				
Max. Efficiency	95%		96%	
General Parameters				
Isolation Transformer	Yes			
Protection Level	IP20			
Operating Temperature [℃]	-30~+55			
Cooling Method	Air cooling			
Relative Humidity	0 ~95%,Non-condensing			
Display	LCD touch screen			
Communication	RS485/CAN/Ethernet			
Communication Protocol	Modbus			
Max. Operating Altitude [m]	4000(> 2000 Derating)			
Weight [kg]	≈800	≈900	≈1900/1930	≈3100/3130/3160
Dimensions (W*D*H) [mm]	950*700*2000	1200*800*2000	600*1000*2100+ 1200*800*2100	(600*800*2200) *2 +1600*1040*2200

COMMERCIAL PCS

LEG-50K/100K/250K/500K-TT-B

Power frequency topology, Strong impact resistance

AC and DC dual power backup ensures power supply to the control system

Suitable for normal use in high altitude and cold areas

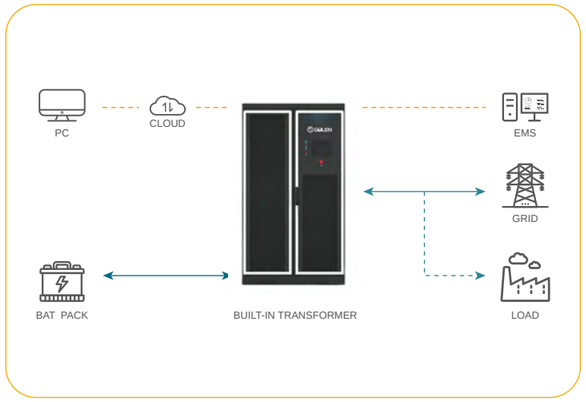
Support seamless switching between on-grid and off-grid

Grid-forming design, Support diesel generator access

DC coupled design High system efficiency

Support three-phase 100% Unbalanced load

Microgrid PV Plant Factory Farm Mine Hospital



【Built-in Transformer】

Model	LEG-50K-TT-B	LEG-100K-TT-B	LEG-250K-TT-B	LEG-500K-TT-B
DC Side Parameters				
Max. DC Voltage [V]	880			
DC Voltage Range [V]	600~880			
AC Output (On Grid)				
RatedOutputPower[kW]	50	100	250	500
Max. Output Power [kVA]	55	110	275	550
Max. Output Current [A]	79	158	397	793
Rated Output Voltage [V]	400			
Rated Grid Frequency [Hz]	50			
THDi	<3%(@Rated Power)			
AC Parameters (Off-Grid)				
Rated Output Power [kW]	50	100	250	500
Max. Output Power [kVA]	55	110	275	550
Rated Output Current [A]	72	144	361	722
Rated Output Voltage [V]	400			
Rated Output Frequency [Hz]	50			
THDu	< 3%(@ Linear Load)			
Overload Capacity	110% Long term,120% 1 minute			
Unbalanced Load Capacity	100%			
Protection				
DC Overvoltage Protection	Yes			
DC Short Circuit Protection	Yes			
AC Overvoltage Protection	Yes			
Reverse polarity protection	Yes			
Module Temp. Protection	Yes			
System Data				
Max. Efficiency	95%			96%
General Parameters				
Isolation Transformer	Yes			
Ingress Protection	IP20			
Temp. Range [℃]	-30~+55			
Cooling Method	Air cooling			
Relative Humidity	0~95%,Non-condensing			
Display Mode	Touch screen			
Communication	RS485/CAN/Ethernet			
Communication Protocol	Modbus-RTU/TCP			
Altitude [m]	4000(> 2000 Derating)			
Weight [kg]	≈650	≈750	≈1600	≈3000
Dimension (W*D*H) [mm]	1000*800*2015		1200*800*2100	1600*1040*2200

CENTRAL PCS

LEG-1250K/1725K-TL

High Efficiency & Reliability

Universal Applicability

Grid Support

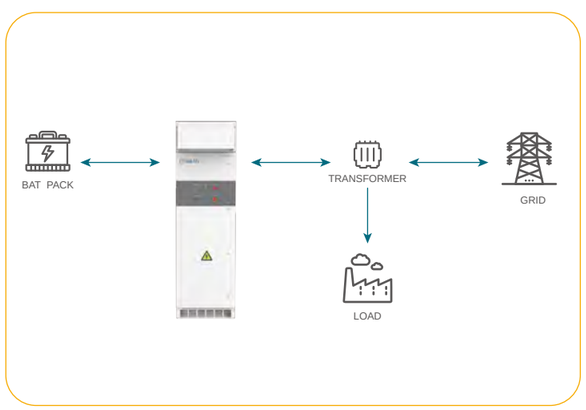
Intelligent O&M

Standalone Energy Storage

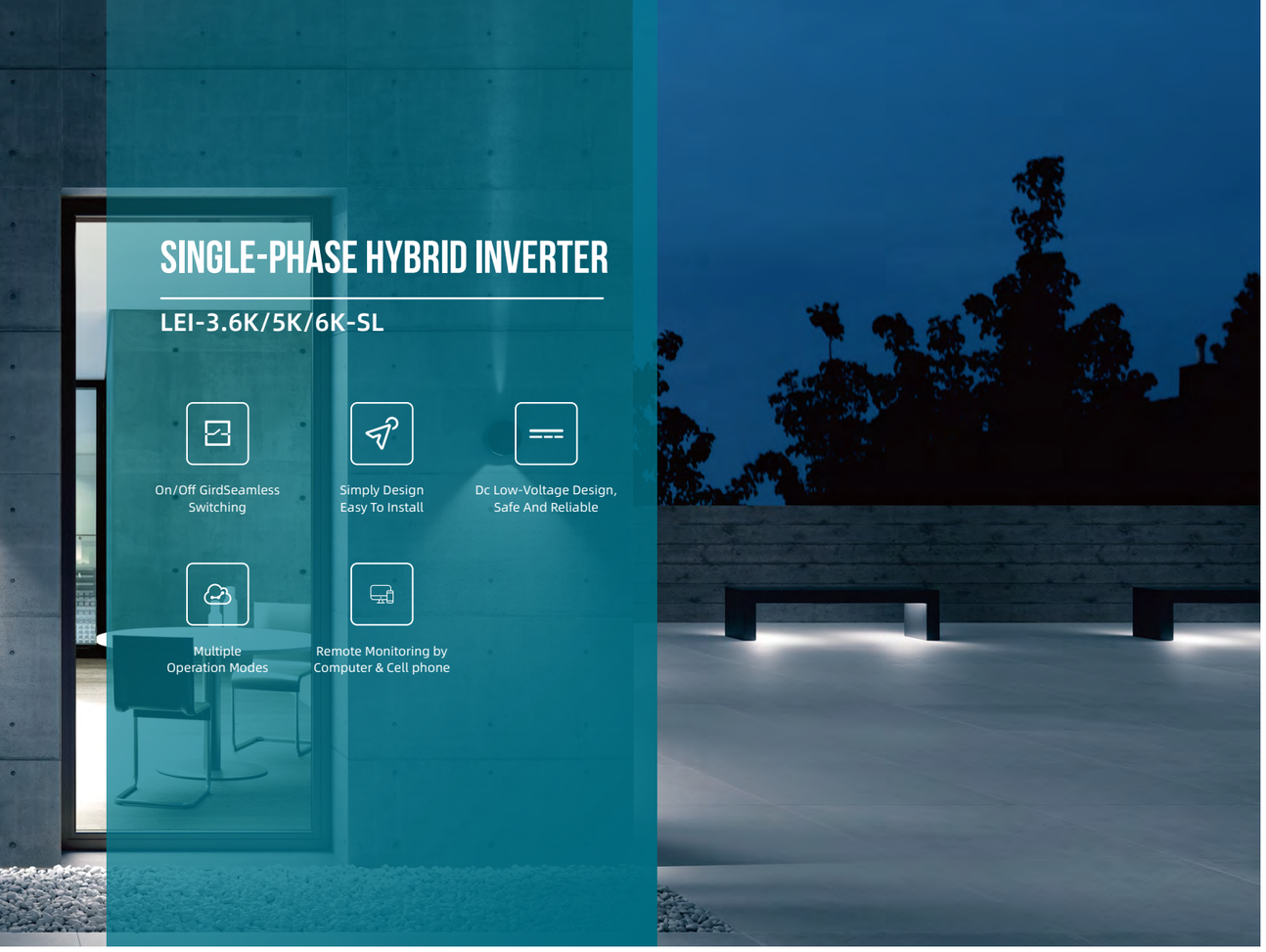
Source-Grid-Load-Storage Integration

Large-Scale C&I Energy Storage

Large-Scale Microgrids



Model	LEG-1250K-TL	LEG-1725K-TL
DC Parameters		
DC Operating Voltage Range [V]	1070~1500	
Max. DC Current [A]	1285	1773
AC Parameters (On Grid)		
Rated Output Power [kW]	1250	1725
Rated Grid Voltage [V]	690	
Allowable Grid Voltage Range	586.5~759	
Rated Grid Frequency [Hz]	50	
Max. AC Current [A]	1150	1587
Power Factor Range	-1~1	
THDi	≤3%(@Rated Power)	
AC Parameters (Off Grid)		
Rated Output Voltage [V]	690	
Rated Output Frequency [Hz]	50	
THDu	≤1.5%(@ Linear Load)	
General Parameters		
Max. Efficiency	99%	
Wiring Method	3-Phase 3-Wire + PE	
Allowable Ambient Temperature [℃]	-30~60	
Allowable Relative Humidity	0~95%，Non-condensing	
Protection Degree (IP Rating)	IP65	
Anti-corrosion Grade	C3（C4, C5 Optional）	
Cooling Method	Intelligent Forced Air Cooling	
Dimensions (W*H*D) [mm]	675*2292*1300	750*2302*2154
Weight [kg]	≈950	≈1308
Communication Interface	RS485/CAN/LAN	
Communication Protocol	CAN2.0/MODBUS-RTU/MODBUS-TCP/IEC61850	



SINGLE-PHASE HYBRID INVERTER

LEI-3.6K/5K/6K-SL

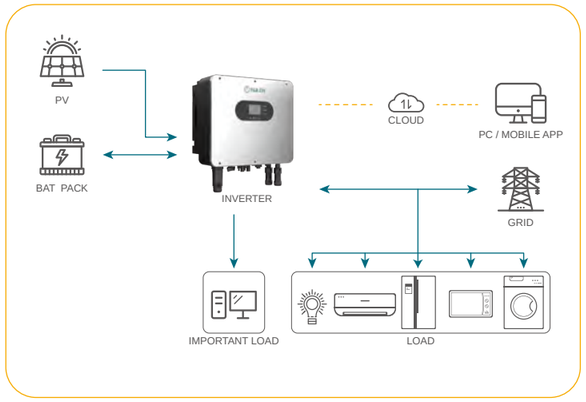
On/Off GirdSeamless Switching

Simply Design Easy To Install

Dc Low-Voltage Design, Safe And Reliable

Multiple Operation Modes

Remote Monitoring by Computer & Cell phone



【Single-Phase】【2MPPT】

Model	LEI-3.6K-SL	LEI-5K-SL	LEI-6K-SL
PV Input			
Max. Recommended PV Power [Wp]	5400	7500	9000
Max. Input Voltage [V]		550	
MPPT Voltage Range [V]		200~500	
Rated Input Voltage [V]		360	
MPPT Number		2/1	
Max. Input Current [A]		18/18	
Battery			
Charge/Discharge Current [A]		100	
Battery Voltage Range [V]		46.7~57.6	
Battery Type		Lithium	
AC Output (On Grid)			
Rated Output Power [W]	3600	5000	6000
Max. Output Power [VA]	3960	5500	6600
Rated Grid Voltage [V]		L/N/PE,230	
Grid Voltage Range [V]		195.5~265	
Rated Grid Frequency [Hz]		50	
Power Factor		1(0.8 Leading~0.8 Lagging)	
THDi		< 3%(@ Rated Power)	
Backup AC Output（EPS）			
Max. Output Power [W]	3960	5500	6600
Max. Output Current [A]	17.2	24	28.7
Rated Output Voltage [V]		230	
Rated Output Frequency [Hz]		50	
THDu		< 3%(@ Linear Load)	
Switch Time		< 20ms	
Efficiency			
Max. Efficiency		98%	
General Parameters			
Protection		DC Reverse Connection Protection,Battery Reverse Polarity Protection,Over-current Voltage Protection,AC Short Circuit Protection,Leakage Current Protection,Grounding Detection,Insulation Resistor Protection	
Ingress Protection		IP65	
Cooling Method		Natural cooling	
Relative Humidity		0~95%，Non-condensing	
Temp. Range [℃]		-25~+40	
Altitude [m]		< 2000	
Noise [dB]		< 30	
Display		LCD	
Communication		RS485/CAN/WIFI/GPRS	
Weight [kg]		23	
Dimension (W*D*H) [mm]		475*425*230	
Installation Style		Wall mounted	

THREE-PHASE HYBRID INVERTER

LEI-8K/10K/12K-TL

On/Off Gird Seamless Switching

Simply Design Easy To Install

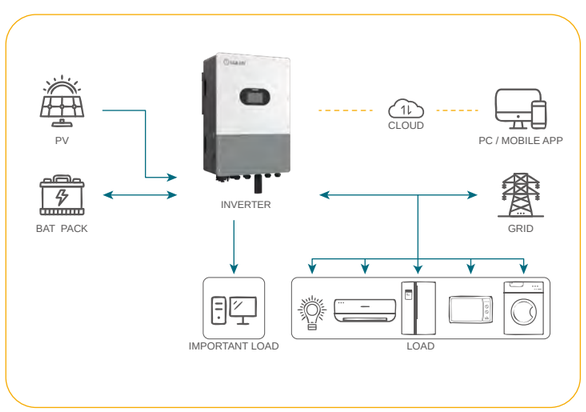
Dc Low-Voltage Design, Safe And Reliable

Multiple Operation Modes

Remote Monitoring by Computer & Cell phone

Independent Output Of Each Phare (100% Unbalance)

Villa Hotel Office Building Hospital Museum Church



【Three-Phase】【2MPPT】

GOLEN

Model	LEI-8K-TL	LEI-10K-TL	LEI-12K-TL
PV Parameters			
Max. PV Input Power [kW]	12.8	16	19.2
MPPT Operating Voltage Range [V]		160~800	
Rated PV Input Voltage [V]		550	
Number of MPPTs		2	
Number of Strings per MPPT	1/1	1/1	2/1
Max. MPPT Input Current [A]	20/20	20/20	40/20
Battery Parameters			
Battery Type		Lithium Battery	
Number Of Battery Input		1	
Battery Voltage Range [V]		40~60	
Max.(Dis) Charging Current [A]	200	250	280
Communication Method		CAN	
On Grid Parameters			
Rated Output Power [kW]	8	10	12
Max. Output Current [A]	11.5	14.5	17.4
Rated Grid Voltage [V]		3W/N/PE，230/400	
Rated Grid Frequency [Hz]		50	
Power Factor		1 (0.8 Leading~0.8 Lagging)	
THDi		<3% (@Rated Power)	
EPS Load Parameters			
Rated Output Power [kW]	8	10	12
Rated Output Current [A]	11.6	14.5	17.4
Overload Capacity		2 × Rated Power, 10s	
Rated Output Voltage [V]		3W/N/PE，220/380，230/400	
Rated Output Frequency [Hz]		50	
THDu		<3% (@Linear Load)	
Generator Input			
Rated Input Power [kW]	12	15	18
Rated Input Voltage [V]		220/380，230/400	
Max. Input Current [A]	17.4	21.7	26.1
Rated Input Frequency [Hz]		50	
Efficiency			
Max. Efficiency		97.6%	
System Parameters			
Protection Functions		BMS Monitoring, PV Reverse Polarity Protection, Grid Monitoring, Output Over-Current Protection, Output Short-Circuit Protection, DC Component Monitoring, Residual Current Monitoring & Protection, Over-Temperature Protection, Anti-islanding Protection, String Ground Fault Monitoring.	
Ingress Protection Rating		IP65	
Cooling Method		Smart Air Cooling	
Relative Humidity		0~95% (Non-condensing)	
Operating Temperature [°C]		-25~+60 (>45 Derating)	
Altitude [m]		<3000	
Noise Level [dB]		<50	
Display		LCD	
Display		WiFi/RS485/CAN	
Weight [kg]		32	
Dimensions (W*D*H) [mm]		450*250*660	
Installation Method		Wall-mounted	

THREE-PHASE HYBRID INVERTER

LEI-10K/12K/15K/20K/50K-TL

On/Off Gird Seamless Switching

Simply Design Easy To Install

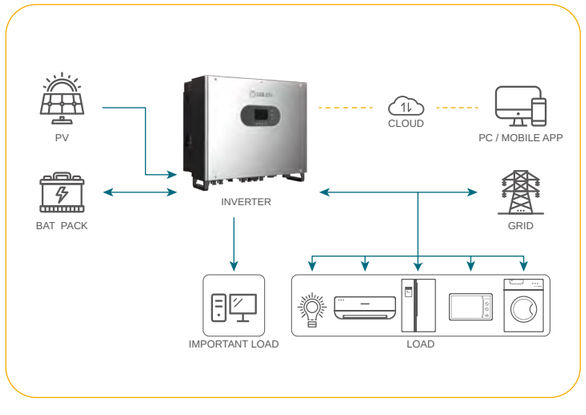
Wide Voltage DC Design

Multiple Operation Modes

Remote Monitoring by Computer & Cell phone

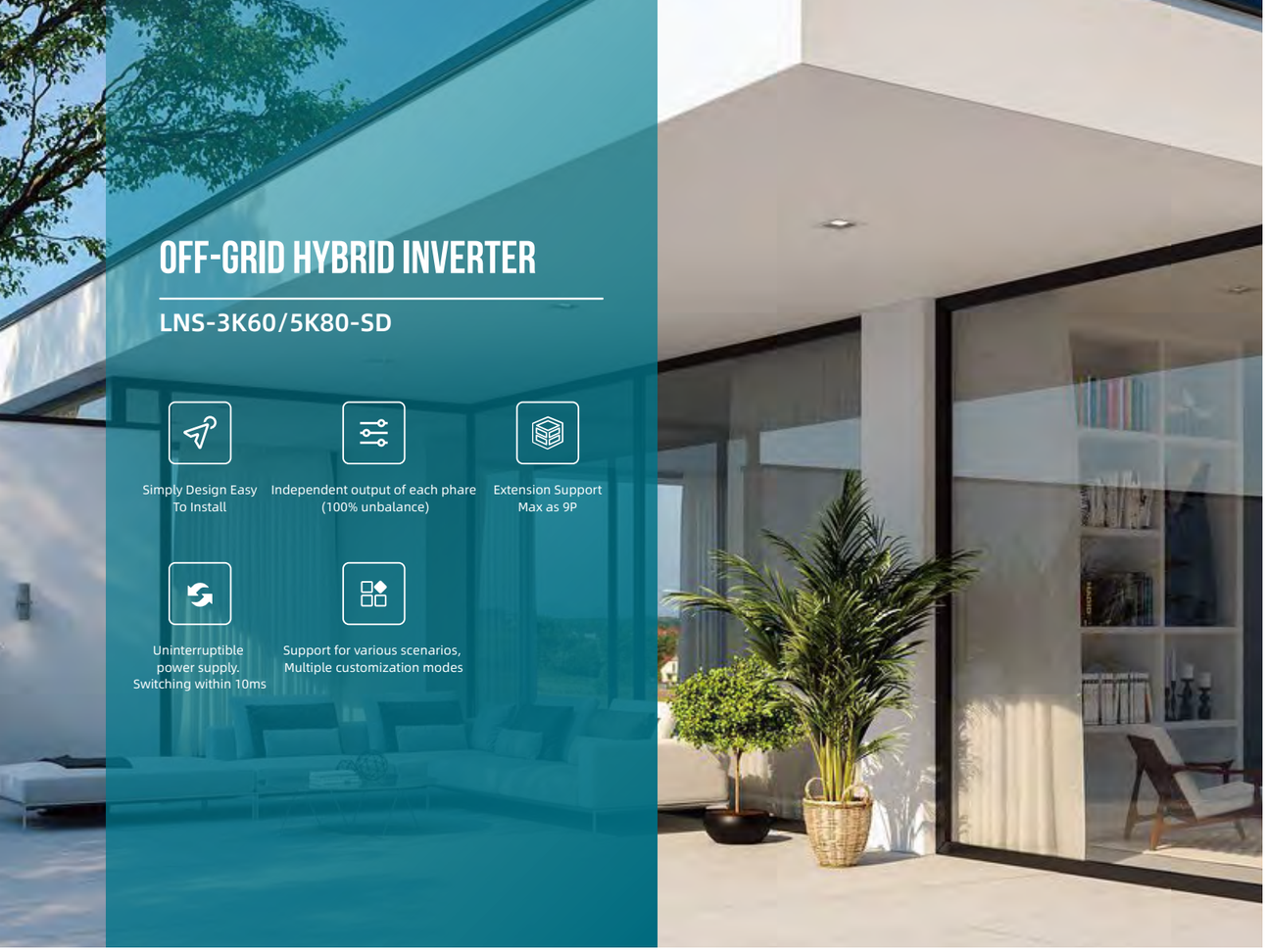
Independent output of each phare (100% unbalance)

Villa Hotel Office Building Hospital Museum Church



【Three-Phase】【2MPPT/4MPPT】

Model	LEI-10K-TL	LEI-12K-TL	LEI-15K-TL	LEI-20K-TL	LEI-50K-TL
PV Input					
Max. Recommended PV Power [kW]	15	18	22.5	30	100
Max. Input Voltage [V]	1000				
Start-up Voltage [V]	200				
MPPT Voltage Range [V]	200~950				
MPPT Full Load Voltage Range [V]	220~850	264~850	350~850	450~850	320~850
MPPT Number	2/2				4/2
Max. MPPT Input Current [A]	50(25/25)				160（40/40/40/40）
Battery					
Battery Type	Lithium				
Number Of Battery Input	2				
Battery Voltage Range [V]	200~800				
Full Load Battery Voltage Range [V]	200~800	240~800	300~800	400~800	310~800
Max.(Dis) Charging Current [A]	50(25/25)				150(75/75)
Communication	CAN				
AC Output (On Grid)					
Rated Output Power [kW]	10	12	15	20	50
Max. Output Power [kVA]	11	13.2	16.5	22	55
Rated Grid Voltage [V]	3W/N/PE,220/380,230/400				
Max. Output Current [A]	16	19	24	32	80
Rated Grid Frequency [Hz]	50				
Power Factor	1(0.8 Leading~0.8 Lagging)				
THDi	< 3%(@ Rated Power)				
Backup AC Output（EPS）					
Rated Output Power [kW]	10	12	15	20	55
Max. Output Power [kVA]	11	13.2	16.5	22	55
Max. Output Current [A]	16	19	24	32	80
Rated Output Voltage [V]	3W/N/PE,220/380,230/400				
Rated Output Frequency [Hz]	50				
THDu	< 3%(@ Linear Load)				
Switch Time	<20ms				
Efficiency					
Max. Efficiency	98.2%				
General Parameters					
Protection	DC Lightning Protection,AC Lightning Protection,PV Reverse Polarity Protection,Battery Reverse Polarity Protection,Insulation Resistance Detection,Leakage Current Detection,Anti-island Protection,Grounding Fault,Input Over&Under Voltage,Output Over&Under Voltage,Input&Output Overcurrent,Overheat Protection				
Ingress Protection	IP65				
Cooling Method	Smart fan cooling				
Relative Humidity	0~95%，Non-condensing				
Temp. Range [℃]	-30~+60				
Altitude [m]	<3000				
Noise [dB]	<45				< 50
Display	LCD				
Communication	RS485(Standard) ; Wi-Fi(Option)				
Weight [kg]	≈38				≈80
Dimension (W*D*H) [mm]	586*270*470				800*621*302
Installation Style	Wall mounted				



OFF-GRID HYBRID INVERTER

LNS-3K60/5K80-SD

Simply Design Easy To Install

Independent output of each phare (100% unbalance)

Extension Support Max as 9P

Uninterruptible power supply. Switching within 10ms

Support for various scenarios, Multiple customization modes

Villa

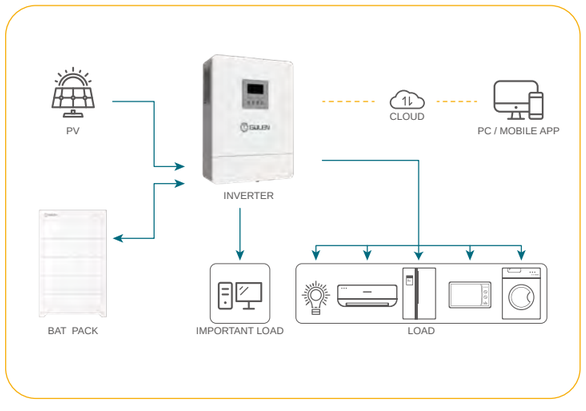
Hotel

Residential Electricity

Hospital

Museum

Church



GOLEN

Model	LNS-3K60-SD	LNS-5K80-SD
Photovoltaic Input		
Max recommended Module power [Wp]	3000	5000
Max. Input Voltage [V]	500	
MPPT Voltage Range [V]	120~450	
Rated Input Voltage [V]	380	
Number of MPPT Paths	1	
Max. input current [A]	18	
Battery		
Max.(Dis) Charging Current [A]	60/60	100/100
Battery voltage range [V]	40~60	
Compatible battery types	LEP	
AC Input (on grid)		
Max. input current [A]	40	
Rated grid voltage [V]	230	
Grid voltage range [V]	170~280	
Rated grid frequency [Hz]	50Hz/60Hz(Adaptive)	
AC Output (off-grid)		
Max. output power [W]	6000	10000
Max. output current [A]	3000	5000
Rated output voltage [V]	230Vac±5%	
Rated voltage frequency [Hz]	50	
THDi	< 3%(@ Rated Power)	
Switching time	10 ms(For Personal Computers);20 ms(For Home Appliances)	
Efficiency		
Max. efficiency	93%	
MPPT efficiency	99%	
General Parameters		
With protection function	Input and output over/under voltage protection,over current protection,overload protection,over temperature protection,short circuit protection and other functions	
IP Protection Rating	IP21	
Cooling Method	Fan	
Relative humidity	0~95% ,Non-condensing	
Operating temperature [℃]	-10~+50	
Altitude [m]	2000	
Noise [dB]	≤60dB	
Display	LCD	
Communication interface	RS232/CAN/Dry Node control	
Weight [kg]	≈12.4	
Dimensions(W*D*H) [mm]	412*300*123	
nstallation	Wall mounted	