



MICROGRID SYSTEM

Smart Solar & Storage Zero-Carbon Future



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

C

OMPANY PROFILE

100,000+

m² TOTAL AREA

2

PRODUCTION BASE

5GW+15GWh

ANNUAL CAPACITY

100+

PATENTS

>6%

R&D INVESTMENT



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.

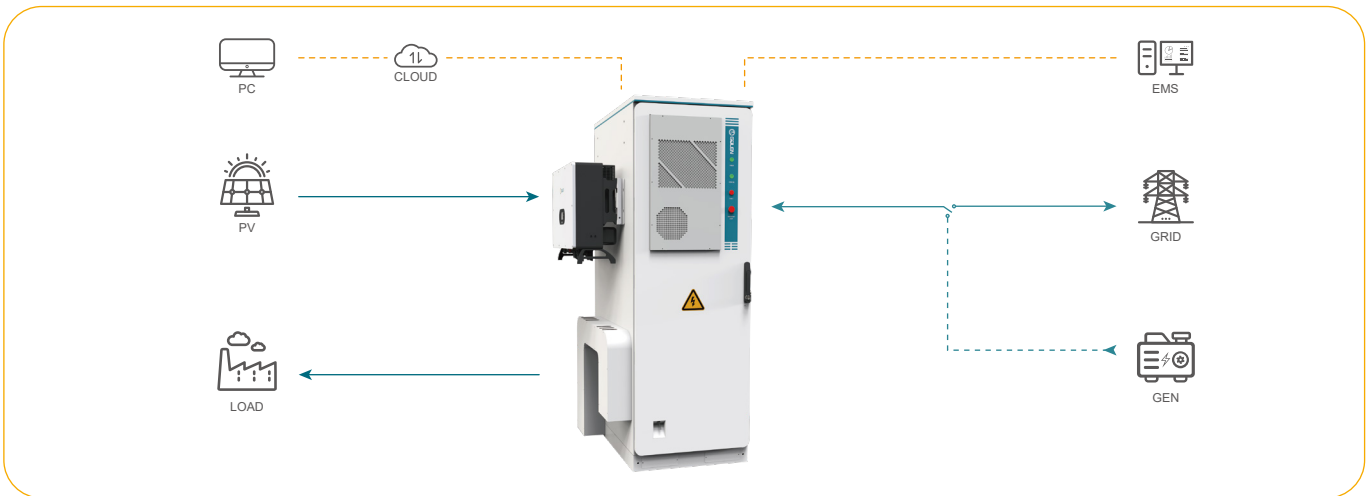
C

ATALOGUE

Small-Scale Microgrid System	01~04
—— LES-40W20-PS/LES-112W50-PS	
—— LES-241L120/261L130-PS	
Medium-Scale Microgrid System	05~08
—— LES-H10-482L250C-S/LES-H10-723L250C-S	
—— LES-H20-1205W500C-PS	
Large-Scale Microgrid System	09~12
—— LBS-4180/5016-HV-G20	
—— LEG-2500K/3450K/5000K-UD-35	

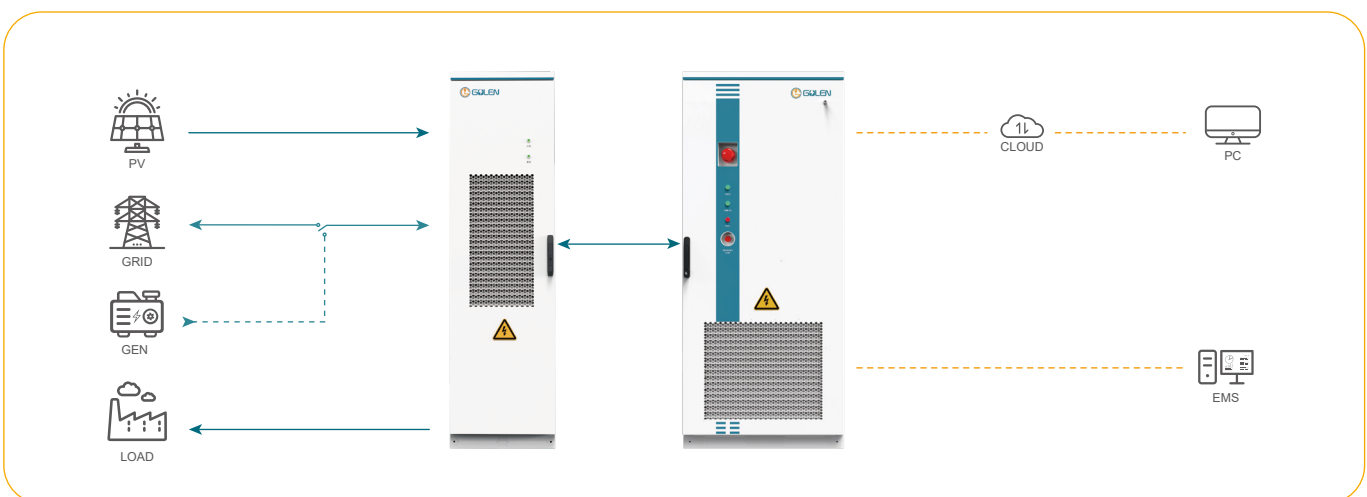
Product Advantages

- Supports three-phase 100% unbalanced load
- Intelligent dehumidification eliminates condensation risk
- Flexible expansion, easy installation and maintenance
- Highly integrated, plug-and-play
- Supports multiple machines in parallel, more flexible application
- Supports maximum 240kW photovoltaic input
- Supports remote upgrade, cloud operation and maintenance
- Arbitrary combination, small dimension



Product Features

- On/Off Grid Seamless Switching
- Multi-power Coordinated Control
- Off-grid Black Start
- Energy Storage
- Backup power supply
- Improved power quality
- Support direct access to photovoltaic/diesel generators
- Remote monitoring



High Safety



High Efficiency



Easy Maintenance

Small-Scale Microgrid System

LES Series Products



Technical Parameters

Model	LES-40W20-PS	LES-112W50-PS
Battery		
Rated Charge/Discharge Performance	0.5C	
Battery Capacity [Ah]	100	314
Battery Rated Voltage [V]	409	358
Operating Voltage Range [V]	358~467	313~408
Rated Energy [kWh]	40	112
System Battery Configuration	1P128S	1P112S
AC Output (On-Grid)		
Rated Output Power [kW]	20	50
Rated Output Current [A]	29	72
Max. Output Power [kVA]	22	55
Max. Output Current [A]	32	80
Rated Voltage [V]	3W/N/PE, 220/380,230/400	
Rated Frequency [Hz]	50	
Power Factor	1 (0.8 Leading~0.8 Lagging)	
THDi	<3% (@Rated Power)	
AC Output (Off-Grid)		
Rated Output Power [kW]	20	50
Rated Output Current [A]	29	72
Rated Output Voltage [V]	3W/N/PE, 220/380,230/400	
Rated Output Frequency [Hz]	50	
Switching Time [ms]	<20	
PV Input		
Max. PV Input Power [kWp]	30	100
Max. PV Input Voltage [V]	1000	
MPPT Number/Number of Strings Per Path	2/2	4/2
MPPT Operating Voltage Range [V]	200~960	200~950
PV Max. Input Current [A]	2*25	4*40
Generator Input Parameters		
Max. Input Power [kVA]	/	60
Max. Input Current [A]		86
Working Phase		3W/N/PE
Protection Level [V]		220/380 ,230/400
Rated Input Frequency [Hz]		50
General Parameters		
Ingress Protection	IP54	
Cooling Method	Forced Air Cooling	
Fire Protection System	Aerosol	Aerosol, Water-based Fire Protection
Relative Humidity	0~95%, Non-condensing	
Operating Temperature [°C]	-20~+50	
Altitude [m]	4000(> 2000 Derating)	
Communication	RS485、Ethernet	
Communication Protocol	Modbus	
Weight [T]	≈1	≈1.35
Dimension (W*D*H) [mm]	1395*1000*1800	750*1150*2250

* If there are any changes in product dimensions and parameters, please refer to the latest information of our company without further notice.Other specifications can be customized according to customer requirements.

Technical Parameters

Model	LES-241L120-PS	LES-261L130-PS
Battery		
Rated Charge/Discharge Performance	0.5C	
Battery Capacity [Ah]	314	
Battery Rated Voltage [V]	768	832
Operating Voltage Range [V]	672~876	728~949
Rated Energy [kWh]	241	261
System Battery Configuration	1P240S	1P260S
AC Output (On-Grid)		
Rated Output Power [kW]	120	130
Rated Output Current [A]	173	187
Rated Output Voltage [V]	3W/N/PE, 230/400	
Rated Output Frequency [Hz]	50	
Power Factor	1 (0.9 Leading~0.9 Lagging)	
THDi	<3% (@Rated Power)	
AC Output (Off-Grid)		
Rated Output Power [kW]	120	130
Rated Output Current [A]	173	187
Rated Output Voltage [V]	3W/N/PE, 230/400	
Rated Output Frequency [Hz]	50	
Unbalanced Load Capacity	100%	
PV Input		
PV Max. Input Power [kWp]	240	
MPPT Max. Number	4	
PV Input Voltage Range [V]	200~660	200~720
PV Max. Input Current [A]	4*150	
General Parameters		
Ingress Protection	IP55	
Cooling Method	Liquid Cooling	
Fire Protection System	Aerosol, Water-based Fire Protection	
Relative Humidity	0~95%, Non-condensing	
Operating Temperature [°C]	-20~+50	
Altitude [m]	4000(> 2000 Derating)	
Communication	RS485、Ethernet	
Communication Protocol	Modbus	
Weight [T]	≈3.2	≈3.4
Dimension (W*D*H) [mm]	1000*1330*2350+650*1050*2350	1000*1370*2350 + 650*1050*2350
*Certificates	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,	

* If there are any changes in product dimensions and parameters, please refer to the latest information of our company without further notice.Other specifications can be customized according to customer requirements.

Product Advantages

- Supports three-phase 100% unbalanced load
- Intelligent dehumidification eliminates condensation risk
- Flexible expansion, easy installation and maintenance
- Highly integrated, plug-and-play
- Supports multiple machines in parallel, more flexible application
- Supports maximum 720kW photovoltaic input
- Supports remote upgrade, cloud operation and maintenance
- Arbitrary combination, small dimension



Product Features

- Seamless switching between on-grid and off-grid
- Multi-power coordinated control
- Off-grid black start
- Energy storage
- Backup power
- Power quality improvement
- Improvement photovoltaic DC
- Coupling remote upgrade



High Safety



Movable



Easy Maintenance

Medium-Scale Microgrid System

LES Series Products



Technical Parameters

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 [°C]	-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			

* If there are any changes in product dimensions and parameters, please refer to the latest information of our company without further notice.Other specifications can be customized according to customer requirements.

Technical Parameters

Model	LES-H20-1205W500C-PS	
Battery		
Rated Charge/Discharge Performance	0.5C	
Battery Capacity [Ah]	314	
Battery Rated Voltage [V]	768	
Operating Voltage Range [V]	672~864	
Rated Energy [kWh]	1205	
System Battery Configuration	5P240S	
AC Output (On-Grid)		
Rated Output Power [kW]	500	
Rated Output Current [A]	721	
Rated Output Voltage [V]	3W/N/PE, 230/400	
Rated Output Frequency [Hz]	50/60	
Power Factor	1 (0.9 Leading~0.9 Lagging)	
THDi	< 3% (@Rated Power)	
AC Output (Off-Grid)		
Rated Output Power [kW]	500	
Rated Output Current [A]	721	
Rated Output Voltage [V]	3W/N/PE, 230/400	
Rated Output Frequency [Hz]	50/60	
Unbalanced Load Capacity	100%	
PV Input		
PV Max. Input Power [kWp]	720	
MPPT Max. Number	12	
PV Input Voltage Range [V]	200~660	
PV Max. Input Current [A]	12*150	
General Parameters		
Isolation Transformer	Yes	
Ingress Protection	IP54	
Cooling Method	Forced Air Cooling	
Fire Protection System	Aerosol	
Relative Humidity	0~95%, Non-condensing	
Operating Temperature [°C]	-20~+50	
Altitude [m]	4000(> 2000 Derating)	
Communication	RS485/Ethernet	
Communication Protocol	Modbus	
Weight [T]	≈20	
Dimension (W*D*H) [mm]	6058*2438*2896	

* If there are any changes in product dimensions and parameters, please refer to the latest information of our company without further notice.Other specifications can be customized according to customer requirements.

Product Advantages

- Integrated design, high power density, low transportation and land costs
- 1500V wide DC voltage range access, flexible adaptation to 6~35kV grid-connected voltage
- Equipped with VF, PQ, VSG and other operating modes
- Supports off-grid multi-unit parallel, black start; meets tens to hundreds of MW off-grid applications
- High protection level, suitable for harsh environments like extreme cold, heat & high salt
- Supports 3S linkage multi-protection; high safety & reliability

Product Features

- Off-grid black start
- Backup power supply
- Power quality improvement
- Demand Response
- Dynamic expansion
- Remote monitoring



High Safety



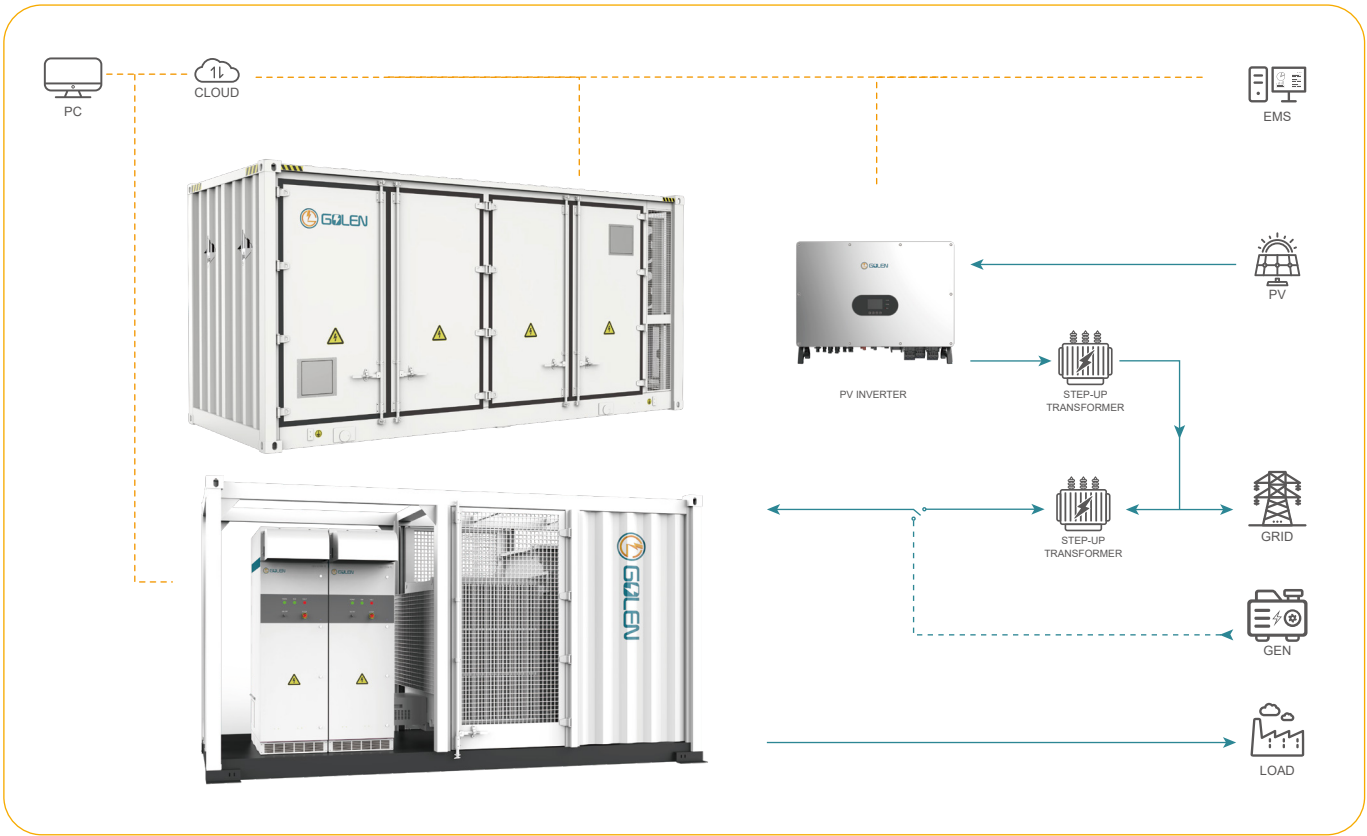
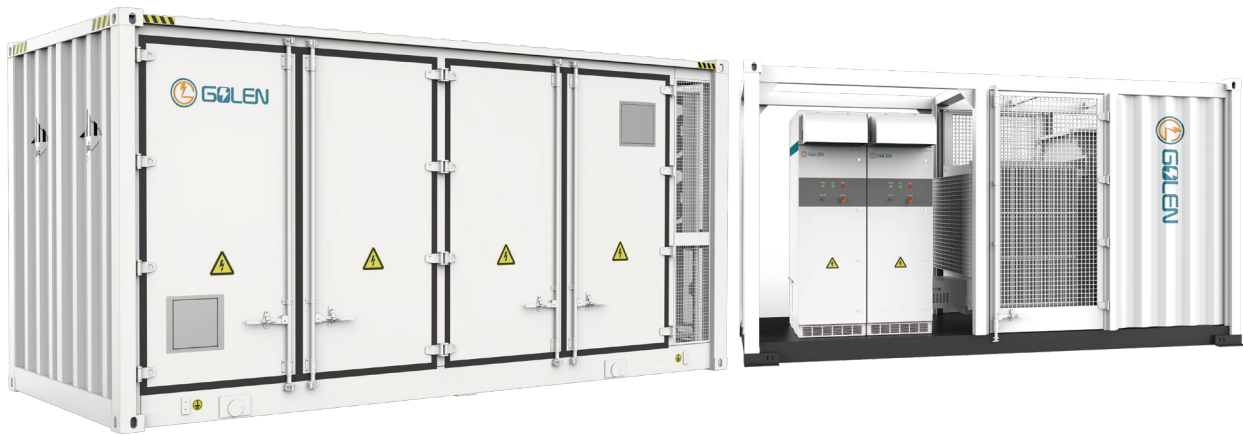
Easy Maintenance



Independent Network

Large-Scale Microgrid System

LEG/LBS



Technical Parameters

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 [°C]	-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	

* If there are any changes in product dimensions and parameters, please refer to the latest information of our company without further notice.Other specifications can be customized according to customer requirements.

Technical Parameters

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]	50/60		
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 [°C]	-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

* If there are any changes in product dimensions and parameters, please refer to the latest information of our company without further notice.Other specifications can be customized according to customer requirements.