

LES-LV-5K-L-G01

Low Voltage Energy Storage Battery

- Safety. Using LiFePO4 cells is safe and provides a stable power supply.
- Stackable at low voltage. Modular design, simple and easy installation, easy battery replacement and system expansion.
- Wide operating temperature range of -20°C~60°C.
- Environmentally friendly. No toxic heavy metals or corrosive materials. Self-generation and use of clean energy to reduce carbon emissions.
- Smart and well designed. The app can monitor data in real time. The LED displays the device parameters in real time and the operating status is clear.

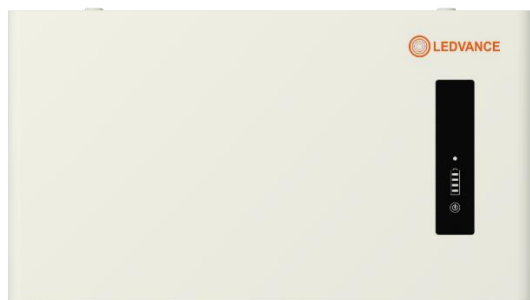
| MODEL | LES-LV-5K-L-G01-H1 | LES-LV-5K-L-G01-H2 | LES-LV-5K-L-G01-H3 | LES-LV-5K-L-G01-H4 |
|---------------------------------------|----------------------------------|--------------------|--------------------|--------------------|
| Electrical Characteristics | | | | |
| Battery Type | LiFePO4 | | | |
| Battery Quantity | 1 | 2 | 3 | 4 |
| Nominal Capacity [kWh] | 5.12 | 10.24 | 15.36 | 20.48 |
| Usable Energy [kWh] (1) | 4.864 | 9.728 | 14.529 | 19.456 |
| Nominal Capacity [Ah] | 100 | 200 | 300 | 400 |
| Nominal Voltage [V] | 51.2 | | | |
| Operating Voltage[V] | 40.0~58.4 | | | |
| Recommended Dischargecurrent [A] | 50 | 100 | 100 | 100 |
| Max.Charge / Dischargecurrent [A] (2) | 50/100 | 100/200 | 150/200 | 200/200 |
| Depth Of Discharge [%] | 90% | | | |
| Warranty | 10 years | | | |
| Minimum Throughput Energy [MWh] (3) | 12.43 | 24.86 | 37.28 | 49.71 |
| Communication | CAN2.0, RS485 | | | |
| Display | SOC LED | | | |
| Scalability | Max.15 Systems in Parallel | | | |
| Operating Conditions | | | | |
| Install Location | Floor mount/Indoor install | | | |
| Cell Operating Temperature [°C] | Charge:-10~55 Discharge:-20~60 | | | |
| Battery Operating Temperature [°C] | Charge:-10~53 Discharge:-20~58 | | | |
| Cell Storage Temperature [°C] | -10~35 ≤ Six months (≥ 50% soc) | | | |
| Battery Storage Temperature[°C] | 0~35 ≤ Six months | | | |
| Cooling Type | Natural Cooling | | | |
| Humidity [%] | 5~95 RH | | | |
| Altitude [m] | Max.2000 | | | |
| Mechanical characteristic | | | | |
| Size [WxDxH mm] | 680x152x430 | 680x152x810 | 680x152x1190 | 680x152x1570 |
| Weight [kg] | 48.0 | 93.5 | 139.0 | 184.5 |
| EMC | YES | | | |
| Certification | CE/EC 62619/UN 38.3 | | | |
| IP Rating of Enclosure | IP65 | | | |

(1) DC Usable Energy, test conditions: 90% DOD, 0.2C charge & discharge at 25°C. System usable energymay vary due to system configuratio.

(2) Current is affected by temperature and SOC.

(3) The Minimum Throughput Energy means the total output energy of the product recorded in the control module of the Product.

System Components



LOW VOLTAGE BATTERY MODULE

| | |
|--------------------------------------|---------------------|
| Model | Battery module 5kWh |
| Battery type | LiFePO4 |
| Nominal voltage [V] | 40.0~58.4 |
| Rated capacity [Ah] | 100 |
| Rated energy [kWh] | 5.12 |
| Nominal charge/discharge current [A] | 50 |
| Peak discharge current [A] | 100 |
| Charge temperature [°C] | -10~53 |
| Discharge temperature [°C] | -20~58 |
| Ingress protection | IP65 |
| Dimension [WxDxH mm] | 680x152x380 |
| Weight approximate [kg] | 45±1 |



BATTERY MODULE BASE

| | |
|-------------------------|---------------------|
| Model | Battery Module Base |
| Dimension [WxDxH mm] | 680x152x50 |
| Weight approximate [kg] | 2.5±0.2 |



COMMUNICATION CABLE

| | |
|---|---------------------|
| Model | Communication Cable |
| Standard 2-meter communication cable connected to the external device | |



POWER CABLE

| | |
|---|-------------|
| Model | Power Cable |
| Standard 2-meter power cable connected to the positive pole of the external PCS | |
| 1000V (1AWG/2AWG) | |



POWER CABLE

| | |
|---|-------------|
| Model | Power Cable |
| Standard 2-meter power cable connected to the negative pole of the external PCS | |
| 1000V (1AWG/2AWG) | |