



## LES-LV-5K

### Low Voltage Energy Storage Battery

- Safety
- Low voltage stackable
- Thermal management
- Wide temperature operation
- Environmental friendliness
- Intelligent and visual

MODEL	LES-LV-5K-H1	LES-LV-5K-H2	LES-LV-5K-H3	LES-LV-5K-H4
<b>ELECTRICAL CHARACTERISTICS</b>				
Battery Type	LiFeP04			
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	14.592	19.456
Nominal Capacity [Ah]	100	200	300	400
Nominal Voltage [V]	51.2			
Operating Voltage [V]	40.0 – 58.4			
Recommend Discharge Current [A]	50	100	200	200
Max. Charge / Discharge Current [A] (2)	100	200	200	200
Depth of Discharge [%]	95%			
Circle Life	4000			
Warranty	10 Years			
Communication	CAN2.0, RS485			
Display	SOC LED			
Scalability	Max.15 Systems in Parallel			
<b>Operating Conditions</b>				
Install Location	Outdoor/Indoor			
Cell Operating Temperature [°C]	Charge: 0 ~ 55 Discharge: -20 ~ 60			
Battery Operating Temperature [°C]	Charge: 0 ~ 53 Discharge: -20 ~ 58			
Cell Storage Temperature [°C]	-20 ~ 35 ≤ Six months (20%-50% SOC)			
Battery Storage Temperature [°C]	0-35 ≤ Six months			
Cooling Type	Natural Cooling			
Humidity [%]	5~95 RH			
Altitude [m]	Max. 2000			
<b>Mechanical characteristic</b>				
Size [WxDxH mm]	680x152x430	680x152x810	680x152x1190	680x152x1570
Weight [kg]	48.0	93.5	139.0	184.5
EMC	Yes			
Certification	CE/IEC 62619/UN38.3			
Ingress protection	IP65			

(1) DC Usable Energy, test conditions: 90% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration.  
 (2) Current is affected by temperature and SOC.

## 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]	0 ~ 55
Discharge temperature [°C]	-20 ~ 60
Ingress protection	IP65
Dimension [WxDxH mm]	680x152x380
Weight approximate [kg]	45.5



### BATTERY MODULE BASE

Model	Battery Module Base
Dimension [WxDxH mm]	680x152x50
Weight approximate [kg]	2.5



### 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	1500V/25mm <sup>2</sup> -50mm <sup>2</sup>



### POWER CABLE

Model	Power Cable
Standard 2-meter power cable connected to the negative pole of the external PCS	1500V/25mm <sup>2</sup> -50mm <sup>2</sup>