



## LES-HV-4K

### High Voltage Energy Storage Battery

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

MODEL	LES-HV-4K-H2	LES-HV-4K-H3	LES-HV-4K-H4	LES-HV-4K-H5	LES-HV-4K-H6
<b>Main parameter</b>					
Battery type	LiFePO4				
Battery quantity	2	3	4	5	6
Nominal capacity [kWh]	8.192	12.288	16.384	20.480	24.576
Usable energy [kWh] (1)	7.782	11.673	15.565	19.456	23.347
Nominal capacity (Ah)	40				
Nominal voltage [V]	204.8	307.2	409.6	512.0	614.4
Operating voltage [V]	179.2~233.6	268.8~350.4	358.4~467.2	448~584	537~700.8
Recommended discharge current [A]	20				
Max. charge/discharge current [A] (2)	40				
Discharge rate	1C				
Depth of discharge [%]	95%				
Circle life	25±2,0.5C/0.5C,90% DOD EOL 70% 6000 Cycles				
Warranty	10 years				
Communication	CAN 2.0/RS485/WIFI/Bluetooth				
Display	SOC LED				
Scalability	Max.8 Systems in Parallel				
<b>Operating Conditions</b>					
Install location	Outdoor/Indoor				
Cell operating temperature [°C]	Charge: 2 ~ 48 Discharge: -18 ~ 58				
Battery operating temperature [°C]	-20 ~ 60				
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				
Operating altitude [m]	Max.2000				
<b>Mechanical characteristic</b>					
Size [WxDxH mm]	600*400*560	600*400*730	600*400*900	600*400*1070	600*400*1240
Weight [kg]	87	122	157	192	227
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



### HIGH VOLTAGE BATTERY CLUSTER CONTROL BOX

<b>Model</b>	Control box
Operating voltage [V]	185.6 ~ 691.2
Nominal charge/discharge current [A]	20
Max. charge/discharge current [A]	40
Operating temperature range [°C]	-20 ~ 60
Ingress protection	IP65
Dimension [WxDxH mm]	600*400*170
Weight approximate [kg]	14.5



### HIGH VOLTAGE BATTERY MODULE

<b>Model</b>	Battery module
Battery type	LiFePO4
Nominal voltage	102.4
Rated capacity [Ah]	40
Rated energy [kWh]	4.096
Nominal charge/discharge current [A]	20
Peak discharge current [A]	40
Charge temperature [°C]	2 ~ 48
Discharge temperature [°C]	-20 ~ 60
Ingress protection	IP65
Dimension [WxDxH mm]	600*400*170
Weight approximate [kg]	35



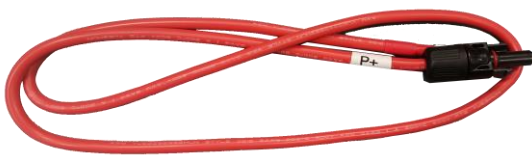
### BATTERY MODULE BASE

<b>Model</b>	Base
Dimension [WxDxH mm]	600*400*50
Weight approximate [kg]	2.5



### COMMUNICATION CABLE

<b>Model</b>	2M silver external communication cable (RJ45 – M19)
Standard 2-meter communication cable connected to the external device	



### POWER CABLE

<b>Model</b>	2M DC+ red external power cable (8AWG)
Standard 2-meter power cable connected to the positive pole of the external PCS	1000V/8AWG Cable



### POWER CABLE

<b>Model</b>	2M DC- black external power cable (8AWG)
Standard 2-meter power cable connected to the negative pole of the external PCS	1000V/8AWG Cable