

LEAPTON ENERGY

EH-B05

■ ■ ■ SWITCH YOUR LIFE
ENERGY STORAGE SOLUTIONS



◆ Convenient

Quick installation standard of 19-inch embedded designed module is comfortable for installation and maintenance. Support USB upgrade, wifi upgrade(optional), remote upgrade(Compatible with Sol-Ark inverter).

◆ Safe and reliable

Cathode material is made from LiFePO4 with safety performance and long cycle life, The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.

◆ Intelligent BMS

It has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.

◆ Eco-friendly

The whole module is non-toxic, non-polluting and environmentally friendly.

◆ Flexible configuration

Multiple battery modules can be in parallel for expanding capacity and power.

◆ Wide temperature

Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.

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MAIN PARAMETER



Model	EH-B05-51.2/614	
Cell Chemistry	LiFePO4	
Module Energy (kWh)	5.12	
Module Nominal Voltage (V)	51.2	
Module Capacity (Ah)	100	
Battery Module Qty In Series (Optional)	12	
System Nominal Voltage (V)	614.4	
System Operating Voltage (V)	480~700.8	
System Energy (kWh)	61.44	
System Usable Energy (kWh)	55.29	
Charge/Discharge Current (A)	Recommend	50
	Max Current	100
Working Temperature (°C)	Charge: 0~55/Discharge: -20~55	
Communication Port	CAN2.0/ RS485	
Humidity	5%~85%RH	
Altitude	≤2000m	
IP Rating of Enclosure	IP20	
Dimension (W/D/H,mm)	RACK	551*590*2100
Installation Location	RACK Mounting	
Storage Temperature (°C)	0~35	
Weight Approximate (kg)	665	
Recommend Depth of Discharge	90%	
Cycle Life	25±2°C,0.5C/0.5C, ≥6000	
Warranty	10years	
Certification	IEC62619/CE/UN38.3	

Note:

1. Value for Battery Cell Only (Depth of Discharge 90%). Actual usable energy at the AC output may vary by condition, such as the battery converter, inverter efficiency and temperature.

2. Lepton Energy recommends 50A@2.5kW for maximum battery module lifetime.Max dis-/charge current and power derating will occur related to temperature and SOC.

SYSTEM COMPONENTS

EH-B0P

High Voltage Battery cluster control box

Operating Voltage	200-750Vdc
Recommend Charge/Discharge Current	50A
Max.Charge/Discharge Current	100A
Operating Temperature Range	-20~65°C
Ingress Protection	IP20
Dimension (W/D/H)	434*570*135mm
Weight Approximate	12KG



EH-B05

5.12 kwh battery module

Battery Type	LiFePO4(LFP)
Nominal Voltage	51.2Vdc
Rated Capacity	100Ah
Rated Energy	5.12kWh
Max. Charge/Discharge Current	100A
Charge Temperature	0~55°C
Discharge Temperature	-20°C~55°C
Storage Temperature	0°C~35°C
Ingress Protection	IP20
Dimension (W/D/H)	434*570*135mm
Weight Approximate	49KG



PREVIEW



Paking list of EH-B05



①



②



③

NO.	Description	Quanaity
①	M6x16 Combination screws	4
②	Serial cable/L165mm,Red,25mm²	1
③	Communication cable for battery/L160mm,RJ45 Plug	1

Paking list of EH-B0P



①



②



③



④



⑤



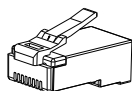
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NO.	Description	Quanaity
①	M6x16 Combination screws	6
②	Positive connector/Orange	1
③	Negative connector/Black	1
④	Power cable-positive to Battery/L190mm,Red,25mm²	1
⑤	Power cable-negative to Battery/L2265mm,Black,25mm²	1
⑥	Communication cable for battery/L160mm,RJ45 Plug	1
⑦	Communication cable to PCS/L3000mm,RJ45 Plug	1
⑧	Ground wire/L1000mm,yellow green,6mm²	1
⑨	Teminal resistor	2