



LEAPTON ENERGY **COMMERCIAL ESS EH-A16**



CONVENIENCE

The battery modules are placed on ground supports, each of which can bear the weight of up to four stacked battery layers. This design facilitates installation, commissioning, and maintenance.



SMART BALANCING

It features multiple protection functions, including over-discharge, overcharge, overcurrent, and over-temperature or low-temperature protection. Each battery module is equipped with a Battery Management System (BMS) to ensure optimal charge and discharge distribution, extending battery life.



SCALABILITY

The system can accommodate 7 to 15 modules, offering excellent scalability and easy adaptation to specific environments.



ECO-FRIENDLY

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



WIDE TEMPERATURE

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

COMMERCIAL ESS EH-A16

Model		EH-A16-51.2/358.4	EH-A16-51.2/409.6	EH-A16-51.2/460.8	EH-A16-51.2/512	EH-A16-51.2/563.2	EH-A16-51.2/614.4	EH-A16-51.2/665.6	EH-A16-51.2/716.8	EH-A16-51.2/768
Cell Chemistry		LiFePO4								
Module Energy (kWh)		16.07								
Module Nominal Voltage (V)		51.2								
Module Capacity (Ah)		314								
Battery Module Qty In Series (Optional)		7	8	9	10	11	12	13	14	15
System Nominal Voltage (V)		358.4	409.6	460.8	512	563.2	614.4	665.6	716.8	768
System Operating Voltage (V)		313.6~408.8	358.4~467.2	403.2~525.6	448~584	492.8~642.4	537.6~700.8	582.4~759.2	627.2~817.6	672~876
System Energy (kWh)		112.5	128.6	144.6	160.7	176.8	192.9	208.9	225	241.1
System Usable Energy (kWh)		101.25	115.74	130.14	144.63	159.12	173.61	188.01	202.5	216.99
Charge/Discharge Current (A)	Recommend	100								
	Max Current	160								
Working Temperature (°C)		Charge: 1~55 / Discharge: -20~55								
Dimension [H*W*D] [mm]	Battery Module	560*825*290								
	PCU Box	560*765*200								
	System	1400±20*825±20*1140±20	1400±20*825±20*1340±20	1960±20*825±20*1050±20	1960±20*825±20*1140±20	1960±20*825±20*1140±20	2520±20*825±20*1050±20	2520±20*825±20*1140±20	2520±20*825±20*1140±20	2520±20*825±20*1140±20
Weight Approximate (kg)	Battery Module	130								
	PCU Box	23								
	System	1010±20	1140±20	1270±20	1400±20	1530±20	1660±20	1790±20	1920±20	2050±20
Communication Port		CAN / RS485								
Humidity		5%~85%RH								
Altitude		≤2000m								
IP Rating of Enclosure		IP20								
Installation Location		Rack Mounted								
Storage Temperature (°C)		0~35								
Operating Temperature(Recommended)(°C)		15~30 Smart fan cooli								
Cycle Life		25 ± 2°C , 0.5C / 0.5C , EOL70% ≥ 6000								
Warranty		10 years								
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. Leapton Energy recommends 100A@5kW for maximum battery module lifetime.Max dis-/charge current and power derating will occur related to temperature and SOC.

EH-F0P

Power Control Box

Operating Voltage	300~1000Vdc
Recommend Charge/Discharge Current	100A
Max.Charge/Discharge Current	160A
Operating Temperature Range	-20~55°C
Ingress Protection	IP20
Dimension (W/D/H)	560*765*200mm
Weight Approximate	23KG



EH-A16

16.08 kwh battery module

Battery Type	LiFePO4(LFP)
Nominal Voltage	51.2Vdc
Rated Capacity	314Ah
Rated Energy	16.08kWh
Max. Charge/Discharge Current	160A
Charge Temperature	0~55°C
Discharge Temperature	-20°C~55°C
Storage Temperature	0°C~35°C
Ingress Protection	IP20
Dimension (W/D/H)	560*825*290mm
Weight Approximate	130KG

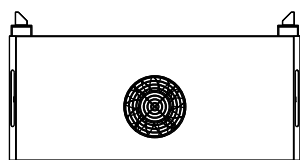


PREVIEW





Packing list of EH-A16 is as follows:



①



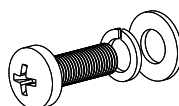
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③



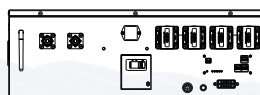
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⑤

No.	Description	Quantity
①	16kWh battery	1
②	Communication cable for battery/ L360mm	1
③	Copper bar	1
④	M8X16 Combination screws	2
⑤	M4X16 screws / Spring Washer / Flat Washer	4

Packing list of EH-F0P is as follows:



①



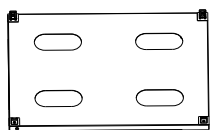
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③

No.	Description	Quantity
①	PCU	1
②	M8X16 Combination screws	6
③	M6X20 Combination screws	1

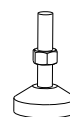
Packing list of Accessory Bag is as follows:



①



②



③



④



⑤



⑥



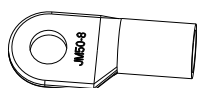
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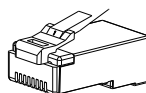
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⑫



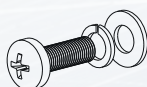
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⑭



⑮



⑯



⑰



⑱

No.	Description	Quantity
①	Pedestal	4
②	Lid	3
③	Footed glass	16
④	Pack terminal resistor	1
⑤	AC power cord	1
⑥	Communication cable for battery/ L1000mm	3
⑦	Serial cable/L1000mm, Red, 1AWG, SC50-8	3
⑧	Power cable-positive to Battery/L3500mm, Red, 1AWG	1
⑨	Power cable-negative to Battery/L230mm, Black, 1AWG	1
⑩	SC50-8	6
⑪	Ground wire/ L300mm, yellow green, 10AWG	3
⑫	Ground wire/ L1500mm, yellow green, 10AWG	1
⑬	Network cable	1
⑭	Parallel Connection terminal resistor	1
⑮	M6X20 Combination screws	7
⑯	M4X16 screws/spring washers/flat washers	20
⑰	User manual	1
⑱	Cable Tie	12