LEAPTON SOLAR

SWITCH YOUR LIFE

ENERGY STORAGE SOLUTIONS



VERSION: 2026 V2

* For the most up-to-date information, please refer to the latest version of this datasheet.

LEAPTON ENERGY

HIGH-VOLTAGE ESS

EH-H05

Scalable Energy Capacity
Supports up to 5 clusters in parallel, expandable from 15.36kWh to 384kWh for flexible system scaling.

Plug-and-Play Installation
Cable-free connection between modules with a stackable design for fast and easy installation.

Intelligent Thermal Management
Independent temperature control with heating function, enabling stable operation from -20° C to 55° C.

Advanced Safety Protection
IP65 protection with built-in fire suppression in each module for enhanced system safety.

LEAPTON SOLAR

Headquarters: Leapton Energy Co., Ltd. TEL: 81-78-382-3182 WEB: www.leaptonenergy.jp
ADD: F6 Tosei Building 1-2-1 Aioicho Chuo-ku, Kobe-shi, Hyogo-ken 650-0025, Japan
Factory: Leapton Solar (Changshu) Co., Ltd. TEL: 86-512-88800068 WEB: www.leaptonpv.com
ADD: No.9 Sunshine Avenue, Changshu, Suzhou city, Jiangsu province, 215500, P. R. China E-MAIL: info@leaptonenergy.com

Model		EH-H05-51.2/153	EH-H05-51.2/204	EH-H05-51.2/256	EH-H05-51.2/307	EH-H05-51.2/358	EH-H05-51.2/409
Cell Chemistry		LFP($LiFePO_4$)					
Module Energy (kWh)[1]		5.12					
Module Nominal Voltage (V)		51.2					
Module Capacity (Ah)		100					
Battery Module Qty In Series (Optional)		3	4	5	6	7	8
Cell Configuration		48S1P	64S1P	80S1P	96S1P	112S1P	128S1P
System Nominal Voltage (V)		153.6	204.8	256	307.2	358.4	409.6
System Operating Voltage (V)		134.4~172.8	179.2~230.4	224~288	268.8~345.6	313.6~403.2	358.4~460.8
System Energy (kWh)		15.36	20.48	25.6	30.72	35.84	40.96
System Usable Energy (kWh)		13.82	18.43	23.04	27.64	32.25	36.86
Charge/Discharge Current (A)[2]	Recommended	50					
	Max	100					
Charging Temperature (°C) [3]		0~55	0~55	0~55	0~55	0~55	0~55
Discharging Temperature (°C)		-20~55	-20~55	-20~55	-20~55	-20~55	-20~55
Operating Temperature (Recommended) (°C)		15~30					
Storage Temperature (°C)		-10~55					
Storage Temperature (Recommended) (°C)		20~30					
Dimensions [W*D*H] [mm]		610±5*390±5*795±5	610±5*390±5*970±5	610±5*390±5*1145±5	610±5*390±5*1320±5	610±5*390±5*1495±5	610±5*390±5*1670±5
Weight Approximate (kg)		170±2	218±2	266±2	314±2	362±2	410±2
Communication		CAN, RS485					
Humidity		5%~85%RH					
Altitude		≤2000m					
IP Rating of Enclosure		IP65					
Mounting Method		Self-stacking installation					
Cooling Method		Natural convection					
Cycle Life		25 ± 2°C , 0.5C / 0.5C , EOL70% ≥ 6000					
Product Warranty		10 years warranty					
Certificates		IEC62619, CE, UN38.3, MSDS					
40HQ Container Capacity (pcs)		468(Battery)+39(PCU)					

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 50A@2.56kW for maximum battery module lifetime.Max dis-/charge current and power derating will occur related to temperature and SOC.
3. For details of batteries with heating function option, please contact Leapton via service@leaptonenergy.com

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LEAPTON SOLAR

● MAIN PARAMETER PREVIEW PACKING LIST

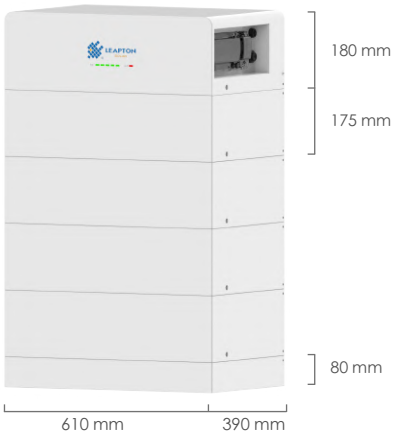
Model		EH-H05-51.2/460	EH-H05-51.2/512	EH-H05-51.2/563	EH-H05-51.2/614	EH-H05-51.2/665	EH-H05-51.2/716	EH-H05-51.2/768
Cell Chemistry		LFP($LiFePO_4$)						
Module Energy (kWh)[1]		5.12						
Module Nominal Voltage (V)		51.2						
Module Capacity (Ah)		100						
Battery Module Qty In Series (Optional)		9	10	11	12	13	14	15
Cell Configuration		144S1P	160S1P	176S1P	192S1P	208S1P	224S1P	240S1P
System Nominal Voltage (V)		460.8	512	563.2	614.4	665.6	716.8	768
System Operating Voltage (V)		403.2~518.4	448~576	492.8~633.6	537.6~691.2	582.4~748.8	627.2~806.4	672~864
System Energy (kWh)		46.08	51.2	56.32	61.44	66.56	71.68	76.8
System Usable Energy (kWh)		41.47	46.08	50.68	55.29	59.9	64.51	69.12
Charge/Discharge Current (A)[2]	Recommended	50						
	Max	100						
Charging Temperature (°C) [3]		0~55	0~55	0~55	0~55	0~55	0~55	0~55
Discharging Temperature (°C)		-20~55	-20~55	-20~55	-20~55	-20~55	-20~55	-20~55
Operating Temperature (Recommended) (°C)		15~30						
Storage Temperature (°C)		-10~55						
Storage Temperature (Recommended) (°C)		20~30						
Dimensions [W*D*H] [mm]		610±5*390±5*1845±5	610±5*390±5*2020±5	610±5*390±5*2195±5	610±5*390±5*2370±5	610±5*390±5*2545±5	610±5*390±5*2720±5	610±5*390±5*2895±5
Weight Approximate (kg)		458±2	506±2	554±2	602±2	650±2	698±2	746±2
Communication		CAN, RS485						
Humidity		5%~85%RH						
Altitude		≤2000m						
IP Rating of Enclosure		IP65						
Mounting Method		Self-stacking installation						
Cooling Method		Natural convection						
Cycle Life		25 ± 2°C , 0.5C / 0.5C , EOL70% ⩾ 6000						
Product Warranty		10 years warranty						
Certificates		IEC62619, CE, UN38.3, MSDS						
40HQ Container Capacity (pcs)		468(Battery)+39(PCU)						

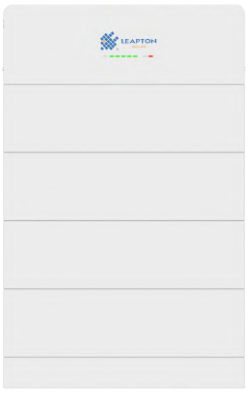
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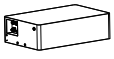
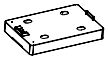
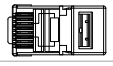
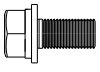
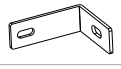
Preview







Packing list of Power Control Unit is as follows

No.	Picture	Description	Quantity
1		Power control unit	1
2		Base support	1
3		Positive plug	1
4		Negative plug	1
5		Heating AC connector	1
6		RJ45 waterproof sleeve	3
7		Parallel connection teminal resistor	1
8		SC6-6	1
9		M5*12 screw	10 (3 for spare)
10		M6*70 expansion screw	6
11		Fixed bracket	2
12		User manual	1

Packing list of Battery is as follows

No.	Picture	Description	Quantity
1		Battery	1
2		M5*12 screw	4