



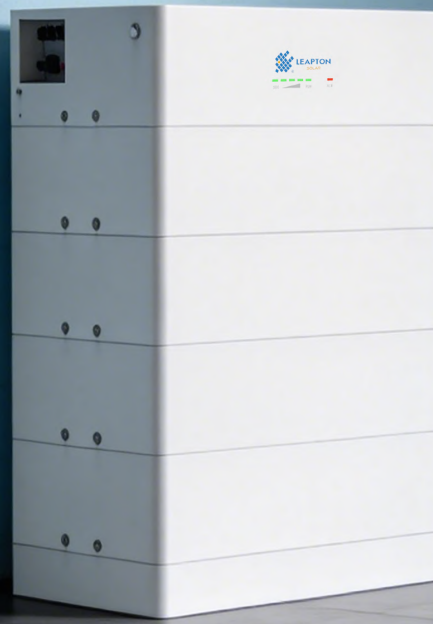
LEAPTON
SOLAR

■ ■ ■ 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.

MODULAR DESIGN



LEAPTON ENERGY
HIGH-VOLTAGE ESS
EH-H05



Scalable Energy Capacity

Supports up to 5 clusters in parallel, expandable from 15.36kWh to 307.2kWh 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.



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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
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
Cell Configuration	48S1P	64S1P	80S1P	96S1P	112S1P
System Nominal Voltage (V)	153.6	204.8	256	307.2	358.4
System Operating Voltage (V)	134.4~175.2	179.2~233.6	224~292	268.8~350.4	313.6~408.8
System Energy (kWh)	15.36	20.48	25.6	30.72	35.84
System Usable Energy (kWh)	13.82	18.43	23.04	27.64	32.25
Charge/Discharge Current (A) ²	Recommended	50			
	Max	100			
Charging Temperature (°C)	0~55 (-20~55)	0~55 (-20~55)	0~55 (-20~55)	0~55 (-20~55)	0~55 (-20~55)
Discharging Temperature (°C)	-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*390*785	610*390*960	610*390*1135	610*390*1310	610*390*1485
Weight Approximate (kg)	167	215	263	311	359
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				

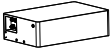





1. Value for Battery Cell Only (Depth of Discharge 90%). Actual usable energy at the AC output may vary by condition, such as the battery converter, inverter efficiency and temperature.
2. Leapton Energy recommends 50A@2.56kW for maximum battery module lifetime. Max dis-/charge current and power derating will occur related to temperature and SOC.
3. The charging temperature of products with heating function is -20°C~55°C

Model	EH-H05-51.2/409	EH-H05-51.2/460	EH-H05-51.2/512	EH-H05-51.2/563	EH-H05-51.2/614
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)	8	9	10	11	12
Cell Configuration	128S1P	144S1P	160S1P	176S1P	192S1P
System Nominal Voltage (V)	409.6	460.8	512	563.2	614.4
System Operating Voltage (V)	358.4~467.2	403.2~525.6	448~584	492.8~642.4	537.6~700.8
System Energy (kWh)	40.96	46.08	51.2	56.32	61.44
System Usable Energy (kWh)	36.86	41.47	46.08	50.68	55.29
Charge/Discharge Current (A) ²	Recommended	50			
	Max	100			
Charging Temperature (°C)	0~55 (-20~55)	0~55 (-20~55)	0~55 (-20~55)	0~55 (-20~55)	0~55 (-20~55)
Discharging Temperature (°C)	-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*390*1660	610*390*1835	610*390*2010	610*390*2185	610*390*2360
Weight Approximate (kg)	407	455	503	551	599
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				



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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 terminal 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