



LEAPTON
SOLAR

VERSION: 2025 V3

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

■ ■ ■ SWITCH YOUR LIFE
ENERGY STORAGE SOLUTIONS

HIGH VOLTAGE BATTERY EH-A05



PERFECT COMPATIBILITY

Suitable for 1 and 3 phase, hybrid and retrofit inverters



SAFE & RELIABLE

Reliable LFP battery cell with high cycle stability



IP65 RATING

IP65 for both indoor and outdoor



FLEXIBLE INVESTMENT

5kWh Modular Design, Flexibility Configuration-
10.2kWh/ 15.3kWh/ 20.4kWh



EASY INSTALLATION

Stackable standard modules



HIGH EFFICIENCY

Charge and discharge with high efficiency



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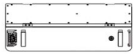
TECHNICAL PARAMETERS

Battery Module	EH-A05-102/102	EH-A05-102/204	EH-A05-102/307	EH-A05-102/409
Rated Energy(kWh) ¹	5.12	10.24	15.36	20.48
Usable Energy (kWh) ¹	4.6	9.2	13.8	18.4
Battery Module Energy	EH-A05/ 5.12kWh			
Number Of Modules	1	2	3	4
Cell Type	LFP (LiFePO ₄)			
Cell Configuration	32S1P	64S1P	96S1P	128S1P
Rated Capacity(Ah)	50			
Nominal Voltage (V)	102.4	204.8	307.2	409.6
Operating Voltage Range (V)	91.2~115.2	182.4~230.4	273.6~345.6	364.8~460.8
Recommended Charge/ Discharge Current (A)	25			
Recommended Charge/ Discharge Power (kW)	2.56	5.12	7.68	10.24
Max. Charge/ Discharge Current (A) ²	50			
Max. Charge/ Discharge Power (kW) ²	5.12	10.24	15.36	20.48
Weight (kg)	70	125	180	235
Dimensions (W × H × D mm)	800*560*195	800*840*195	800*1120*195	800*1400*195
Communication	CAN, RS485			
Operating Temperature (°C)	Charge: 0~50, Discharge: -20~50			
Operating Temperature (Recommended) (°C)	15~30			
Storage Temperature (°C)	-10~55			
Storage Temperature (Recommended) (°C)	20~30			
Relative Humidity	5%~95%			
Cycle Life	>6000 (25°C @ 77°F)			
Recommended DOD	90%			
Environment	Outdoor / Indoor (*Please refer to the user manual for installation condition)			
Cooling Method	Natural convection			
Ingress Protection Rating	IP65			
Max. Operating Altitude (m)	2000			
Mounting Method	Floor-standing			
Certificates	IEC 62619, CE, UN38.3, MSDS			
Product Warranty	12 years warranty			

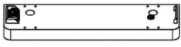
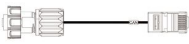
1. Value for Battery Cell Only (Depth of Discharge 90%). Actual usable energy at the AC output may vary by condition, such as the battery converter, inverter efficiency and temperature.

2. Leapton Energy recommends 25A@2.56kW for maximum battery module lifetime. Max dis-/charge current and power derating will occur related to temperature and SOC.

Packing list of EH-A05

No.	Picture	Description	Quantity
1		Battery	1
2		Wall Mounting Connecting Piece-1	2
3		Wall Mounting Connecting Piece-2	2
4		M5*10 Screw	10
5		M6*70 Expansion Bolt	2

Packing list of EH-A0P

No.	Picture	Description	Quantity
1		Power Control Unit	1
2		Base Support	1
3		M5*10 Screw	6 (one for spare)
4		M6*70 Expansion Bolt	2
5		PE Cable 1m	1
6		Communication Connector	1
7		Negative Power Connector	1
8		Positive Power Connector	1
9		User Manual	1