



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

LOW VOLTAGE BATTERY **EL-A05 (IP20)**



PERFECT COMPATIBILITY

Suitable for 1 and 3 phase, hybrid and retrofit inverters



SAFE & RELIABLE

Reliable LFP battery cell with high cycle stability



CYCLE LIFE

≥ 6000 cycles



SYMMETRIC DESIGN

Four power ports, Symmetrical left-right connections



1C@25°C RATE SUPPORT

Maximum discharge rate 1C@25°C



CONVENIENT PARALLEL CONNECTION

Shortest wiring for multi-unit parallel setups, Supports up to 15 units in parallel

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TECHNICAL PARAMETER

Battery Module	EL-A05
Rated Energy(kWh) ¹	5.12
Usable Energy (kWh) ¹	4.6
Cell Type	LFP (LiFePO ₄)
Cell Configuration	16S1P
Rated Capacity(Ah)	100
Nominal Voltage (V)	51.2
Operating Voltage Range (V)	40~57.6
Recommended Voltage Range (V)	44.8~56.8
Recommended Charge/Discharge Current (A)	50
Recommended Charge/Discharge Power (kW)	2.56
Max. Charge/ Discharge Current (A) ²	70/ 100
Max. Charge/ Discharge Power (kW) ²	3.58/ 5.12
Weight (kg)	43
Dimensions (W × H × D mm)	325*600*150
Communication	RS485, RS232, CAN
Operating Temperature (°C)	Charge: 0~55, Discharge: -20~55
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)
Environment	Indoor
Cooling Method	Natural convection
Ingress Protection Rating	IP20
Max. Number Of Parallel Connections (pcs)	15
Max. Operating Altitude (m)	2000
Mounting Method	Wall-mounted
Certificates	IEC 62619, CE, UN38.3, MSDS
Product Warranty	5 years warranty

Note

1. 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.

OPTIONAL ACCESSORIES

(NOT INCLUDED, SOLD SEPARATELY)

EL-A05 Packing list (Include)

No.	Project	Description
1		Main Unit*1
2		User Manual*1
3		SC25-6*4
4		SC6-6*2
5		RJ45 Connector*2
6		M6*70 Expansion Screw*5
7		M5*12 Screw*8
8		Supporting Bracket*1

Optional accessories, Sold separately (Exclude)

No.	PN	Description	Picture
1	G.01.B.0214	Battery Power Cable(positive)*1 Size:25mm ² Length:1.6m	
		Battery Power Cable*(negative)*1 Size:25mm ² Length:1.6m	
2	G.01.B.0215	Battery Parallel Cable(positive)*1 Size:25mm ² Length:0.6m	
		Battery Parallel Cable*(negative)*1 Size:25mm ² Length:0.6m	
3	G.01.B.0018	Ground Wire*1 Size:10 AWG Length:1m	
4	G.02.B.0165	Battery Communication Cable*1 Length:1.5m	
5	G.02.B.0144	Battery Parallel Communication Cable*1 Length: 1m	