



LEAPTON
SOLAR

VERSION: 2026 V2

* 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



PERFECT COMPATIBILITY

Suitable for 1 and 3 phase, hybrid and retrofit inverters



SAFE & RELIABLE

Reliable LFP battery cell with high cycle stability, IP65 waterproof design



CYCLE LIFE

≥ 6000 cycles



SYMMETRIC DESIGN

Four power ports, Symmetrical left-right connections



1C@25°C RATE SUPPORT

Maximum charge/ 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	100
Max. Charge/ Discharge Power (kW) ²	5.12
Weight (kg)	43
Dimensions (W × H × D mm)	395*615*140
Communication	RS485, RS232, CAN
Operating Temperature (°C) ³	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)
Recommended DOD	90%
Environment	Outdoor /Indoor(*Please refer to the user manual for installation condition)
Cooling Method	Natural convection
Ingress Protection Rating	IP65
Max. Number Of Parallel Connections (pcs)	15
Max. Operating Altitude (m)	2000
Mounting Method	Wall-mounted
Heating Function	Optional
Certificates	IEC 62619, CE, UN38.3, MSDS
Product Warranty	10 years warranty
Compatible inverter brands	Leapton, Solis and others
40HQ Container Capacity (pcs)	512

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

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*4
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	
6	B.06.A.0030	Aerosol Fire Extinguishing Device*1	