



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



PERFECT COMPATIBILITY

Suitable for 1 and 3 phase, hybrid and retrofit inverters



LiFePO₄

Reliable LFP battery cell with high cycle stability



EOL: 80%

Efficiency: 80% of the initial capacity after 10 years



SMART BMS

Battery management system (BMS)
Safer, Smarter, Longer-lasting



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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Battery Module	EL-A05
Rated Energy(kWh) ¹	5.12
Usable Electricity Storage Capacity (kWh) ¹	5
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
Minimum Charging Power (kW) ²	3.74
Minimum Discharging Power (kW) ²	3.5
Max. Charge/ Discharge Current (A)	100
Max. Charge/ Discharge Power (kW)	5.12
Weight (kg)	43
Dimensions (W × H × D mm)	395*615*140
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)
Depth Of Discharge (DOD)	98%
The Efficiency Of The Conversion System	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









Note:

1. Value for Battery Cell Only (Depth of Discharge 98%).Actual usable energy at the AC output may vary by condition, such as the battery converter, inverter efficiency and temperature.
2. Minimum Charging Power (3.74 kW) is applicable at 25°C to 45°C, minimum Discharging Power (3.5 kW) is applicable at 15°C to 45°C.








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	