



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-A2.56



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



INTELLIGENT BMS

Automatically manage charge and discharge state



1C@25°C RATE SUPPORT

Maximum charge/ discharge rate
1C@25°C



HIGH EFFICIENCY

Charge and discharge with high efficiency

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TECHNICAL PARAMETERS

Battery Module	EL-A2.56
Rated Energy(kWh) ¹	2.56
Usable Energy (kWh) ¹	2.3
Cell Type	LFP (LiFePO ₄)
Cell Configuration	851P
Rated Capacity(Ah)	100
Nominal Voltage (V)	25.6
Operating Voltage Range (V)	20~28.8
Recommended Voltage Range (V)	22.4~28.4
Recommended Charge/ Discharge Current (A)	50
Recommended Charge/ Discharge Power (kW)	1.28
Max. Charge/ Discharge Current (A) ²	100
Max. Charge/ Discharge Power (kW) ²	2.56
Weight (kg)	20
Dimensions (W × H × D mm)	350*260*180
Communication	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)
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)	Not supported
Max. Operating Altitude (m)	2000
Mounting Method	Wall-mounted
Certificates	MSDS, UN38.3
Product Warranty	10 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 50A@1.28kW for maximum battery module lifetime Max dis-/charge current and power derating will occur related to temperature and SOC.