



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 (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



INTELLIGENT BMS

Automatically manage charge and discharge state



1C@25°C RATE SUPPORT

Maximum 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	70/ 100
Max. Charge/ Discharge Power (kW) ²	1.79/ 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)
Environment	Indoor
Cooling Method	Natural convection
Ingress Protection Rating	IP20
Max. Number Of Parallel Connections (pcs)	Not supported
Max. Operating Altitude (m)	2000
Mounting Method	Wall-mounted
Certificates	MSDS, UN38.3
Product Warranty	5 years warranty

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@1.28kW for maximum battery module lifetime Max dis-/charge current and power derating will occur related to temperature and SOC.