



**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-A2.56



#### PERFECT COMPATIBILITY

Suitable for 1 and 3 phase, hybrid and retrofit inverters



#### CYCLE LIFE

6000 cycles



#### 1C@25°C RATE SUPPORT

Maximum charge/ discharge rate  
1C@25°C



#### SAFE & RELIABLE

Reliable LFP battery cell with high cycle stability



#### INTELLIGENT BMS

Automatically manage charge and discharge state



#### HIGH EFFICIENCY

Charge and discharge with high efficiency

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## TECHNICAL PARAMETERS

| Battery Module                                  | EL-A2.56                                                                     |
|-------------------------------------------------|------------------------------------------------------------------------------|
| Rated Energy(kWh) <sup>1</sup>                  | 2.56                                                                         |
| Usable Energy (kWh) <sup>1</sup>                | 2.3                                                                          |
| Cell Type                                       | LFP (LiFePO <sub>4</sub> )                                                   |
| Cell Configuration                              | 8S1P                                                                         |
| 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) <sup>2</sup> | 100                                                                          |
| Max. Charge/ Discharge Power (kW) <sup>2</sup>  | 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                                                            |
| Compatible inverter brands                      | Leapton, Solis and others                                                    |
| 40HQ Container Capacity (pcs)                   | 1092                                                                         |

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.