

16kWh

# Residential ESS Energy Storage Battery



## Long Lifespan & Solid Warranty

8,000-cycle design life, backed by a 10-year warranty for maximum long-term value.



## Ultra-Slim & Space-Saving

Only 157 mm thick, wall-mount design for seamless integration and minimal footprint.



## Intuitive User Experience

HD LCD interface for real-time status monitoring, energy data display, and system alerts.



## Scalable & Compatible

Supports up to 8 units in parallel, compatible with major inverter brands and communication protocols.

| Model                         | ROS-LUXAR-16                                                                                      |
|-------------------------------|---------------------------------------------------------------------------------------------------|
| Capacity                      | 16.08kWh                                                                                          |
| Usable Energy                 | 14.47kWh                                                                                          |
| Size                          | 564*157*954mm                                                                                     |
| Weight                        | 128kg                                                                                             |
| Battery Voltage               | 51.2V                                                                                             |
| Voltage Range                 | 48-56V                                                                                            |
| Max. Discharge Power          | 10kW                                                                                              |
| Communication Interfaces      | CAN/RS485                                                                                         |
| Parallel Support (Maximum)    | Up to 8 Units in Parallel                                                                         |
| Protection Mode               | Comprehensive Safety Protections                                                                  |
| Battery Type                  | LiFePO4                                                                                           |
| Capacity                      | 314Ah                                                                                             |
| IP Level                      | IP65 + C5 Anti-Corrosion (ISO 12944)                                                              |
| Battery Protection            | Over-Current/ Over-Voltage/ Short Circuit/ Under-Voltage/ Over-Temperature                        |
| Protective Class              | I                                                                                                 |
| Charging Temperature Range    | -10 ~ 70°C                                                                                        |
| Discharging Temperature Range | -20 ~ 70°C                                                                                        |
| Humidity                      | 0-95% RH (non-condensing)                                                                         |
| Altitude                      | ≤2000m                                                                                            |
| Installation Method           | Floor Standing                                                                                    |
| Cooling Type                  | Natural Convection                                                                                |
| Warranty & Cycle Life         | 10 years or 8000 Cycle (@25±2°C, 0.5C/0.5C,80%DOD)                                                |
| Display                       | SOC status indicator, LCD indicator                                                               |
| Safety Certificate            | UN38.3 / CE / CB                                                                                  |
| Inverter Protocols Supported  | Pylontech/ Growatt/ SRNE/ Deye/ megarevo/ Techfine/ Goodwe/ CVTE /<br>Luxpower/Must (low voltage) |

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