

## RI-ENERGYPACK-LV Series



### Low Voltage Batteries for PV applications

- Available as 5.1kWh, 10.2kWh or 16kWh versions
- Support up to 32 units parallel connection (of same capacity)
- 1C Max. Charging/Discharging Current
- Cycle life: >6000 (5.1 & 10.2kWh), >8000 (16kWh)
- Self-configuring parallel networking one-touch start
- Supports remote monitoring and firmware upgrades
- Optional heating function

#### Product Description

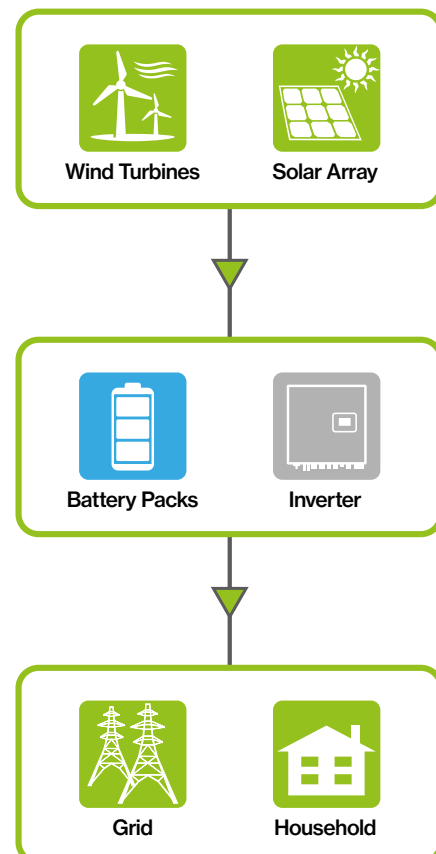
The RI-ENERGYPACK-LV series are 51.2V LFP batteries with an intelligent BMS and a modular design. It supports up to 32 units in parallel, enabling safe, reliable, fully functional, and efficient energy storage for both residential and commercial applications.

Three versions are available:-

RI-EP-LV-5.1kWh - 5.1kWh capacity

RI-EP-LV-10.2kWh - 10.2kWh capacity

RI-EP-LV-16kWh - 16kWh capacity



## Electrical Parameters

Model	RI-EP-LV-5.1kWh	RI-EP-LV-10kWh	RI-EP-LV-16kWh
Nominal Voltage [V]	51.2	51.2	51.2
Nominal Capacity [Ah]	100	200	314
Nominal Energy [kWh] <sup>[1]</sup>	5.12	10.24	16
Voltage Range [V]	43.2...57.6	43.2...57.6	43.2...57.6
Max. Continuous Charging Current [A] <sup>[2]</sup>	100	200	200
Max. Continuous Discharging Current [A] <sup>[2]</sup>	100	200	200

## General Specification

Model	RI-EP-LV-5.1kWh	RI-EP-LV-10kWh	RI-EP-LV-16kWh
Battery Chemistry	LiFePO <sub>4</sub>	LiFePO <sub>4</sub>	LiFePO <sub>4</sub>
Dimensions (W x H x D) [mm]	454 x 585 x 135	454 x 635 x 240	450 x 970 x 235.5
Net Weight [kg]	48	87	121
Scalability	Max. 32pcs pack (Max. 163.84kWh) in parallel	Max. 32pcs pack (Max. 326.4kWh) in parallel	Max. 32pcs pack (Max. 512kWh) in parallel
Ingress Protection	IP20	IP20	IP20
Installation Type	Wall - mounted	Floor - mounted	Floor - mounted
Indicator	LED		
Cooling	Natural		
Communication Port	RS485 / CAN		
Operation Temperature Range [°C] <sup>[3]</sup>	-20...+60		
Operation Humidity	5...95%		
Altitude [m]	≤ 2000		
Cycle Life	6000 (@ 25°C / 0.5C / 70% EOL)	6000 (@ 25°C / 0.5C / 70% EOL)	8000 (@80% DOD / 25°C / 0.5C / 70% EOL)
Heating Function	Optional	Optional	Optional

[1] Nominal Energy: 100% DOD 0.5C charge & discharge at +25°C (test conditions).

[2] The current is affected by temperature and SOC.

[3] Ambient temperature: charging (0...+53°C) or (-10...+53°C, with optional heating function); discharge (-20...+58°C).

## Certification & Standards

Model	RI-EP-LV-5.1kWh	RI-EP-LV-10kWh	RI-EP-LV-16kWh
Certificate	IEC 62619, UN38.3	IEC 62619, UN38.3	UN38.3

## Model Selection Table

Description	Model
5.1kWh storage capacity	RI-EP-LV-5.1kWh
10.2kWh storage capacity	RI-EP-LV-10.2kWh
16kWh storage capacity	RI-EP-LV-16kWh