



THE TRUSTED POWER SOURCE

# PHOENIX LITHIUM SERIES





# LITHIUM-ION

## ENERGY STORAGE BATTERY

### RLW-5.4-X1

51.2V | 105AH

WALL  
SERIES



#### Proven Reliability

Offers 6000 validated cycles for lasting battery life



#### High Scalability

Flexible Configuration from 5.37kWh-80kWh



#### Ultimate Performance

1C Charge/Discharge Capability for demanding loads



#### Smart BMS

High acquisition accuracy allows for complete control and cell management



#### Safety

Built-in protection against short-circuits and over charging/discharging



#### IP65 Design

Offers protection from Dust and Water

# DATA SHEET

Model	RLW-5.4-X1
Battery Chemistry	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
Cell String	16S
Nominal Voltage	51.2 V
Battery Capacity	105 Ah
Nominal Energy	5.37 kWh
Usable Energy	4.83 kWh
Operating Voltage Range	44.8 V - 57.6 V
Recommended Charge/Discharge Current	50 A
Max. Charge/Discharge Current	100 A
Dimension (W*D*H)	480*200*633 mm (Exclude mounting bracket)
Weight (Kg)	53 Kg
Expansion	Up to 16 units in parallel
Communication	CAN/RS485
Operating Temperature Range	Charge: 0°C ~ +55°C Discharge: -20°C ~ +60°C
Storage Temperature	-20 ~ +35°C
Humidity	5% ~ 95%
Altitude (m)	<2000
IP Class	IP65

# LITHIUM-ION ENERGY STORAGE BATTERY RLR-5.1-X1



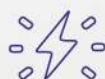
51.2V | 100AH

RACK  
SERIES



### Proven Reliability

Offers 6000 validated cycles for lasting battery life



### High Scalability

Modular Configuration from 5.12KWh~76.8KWh



### Ultimate Performance

1C Charge/Discharge Capability for demanding loads



### Smart BMS

High acquisition accuracy allows for complete control and cell management



### Safety

Built-in protection against short-circuits and over charging/discharging



### Easy Installation

Plug and Play Terminals provide Faster Installation Time, Secure Connection and Corrosion Protection

# DATA SHEET

Model	RLR-5.1-X1
Battery Chemistry	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
Cell String	16S
Nominal Voltage	51.2 V
Battery Capacity	100 Ah
Nominal Energy	5.12 kWh
Usable Energy	4.68 kWh
Operating Voltage Range	44.8 V - 57.6 V
Recommended Charge/Discharge Current	50 A
Max. Charge/Discharge Current	100 A
Dimension (W*D*H)	442*468*135 mm (Exclude handle)
Weight (Kg)	42 Kg
Expansion	Up to 8 units in parallel
Communication	RS485/CAN
Operating Temperature Range	Charge: 0°C ~ +55°C Discharge: -20°C ~ +60°C
Storage Temperature	-20 ~ +35°C
Humidity	5% ~ 95%
Altitude (m)	<2000



# LITHIUM-ION

## ENERGY STORAGE BATTERY

### RLC-1.3-X1

12.8V | 105AH

CUBE  
SERIES



#### Bluetooth APP

Ability to monitor real-time battery status



#### High Scalability

Supports Parallel/Series Connection



#### Affordability

Cost effective design to maximize return on investment



#### Smart BMS

Provides safety and long battery life



#### IP65 Design

Offers protection from Dust and Water



#### Compact Build

Light weight Design and Convenient Installation

# DATA SHEET

## Product Specification

Model	RLC-1.3-X1
Battery Cell Chemistry	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
Cell String	1P4S
Nominal Voltage	12.8 V
Battery Capacity	105 Ah (25°C, 0.2C)
Nominal Energy	1344 Wh
Operating Voltage Range	10.4 V - 14.6 V
Charging limited Voltage [V]	14.6 V
Charge Mode	CC/CV (0.5C to 14.6V, then 14.6V until charge current less than 0.02C)
Discharge Cut-off Voltage [V]	10.4 V
Recommended Charge/ Discharge Current	50 A
Max.continuous Charge/ Discharge Current	75 A
Peak Charge/Discharge current	80 A @ 60 s
Case Material	ABS
Dimension [L*W*H]	260*167*210 mm (±3mm)
Weight (KG)	12 Kg ± 1 Kg
Terminal Type	M8

Operating Temperature Range	Charge: 0°C ~ +55°C Discharge: -20°C ~ +60°C
Storage Temperature	-20 ~ +35°C
Humidity	5% ~ 95%
Altitude (m)	<2000
IP Class	IP65
Design Life	5+ Years
Cycle Life	5000 cycles @ 0.5C @ 25°C @ 80% DOD
BMS Protection	Over charge/discharge, Over temperature, Short circuit, etc
Communication	Blue Tooth Access APP-Real-time monitoring Battery Status include capacity, voltage, current, cycles, SOC, SOH, cell voltage, temperature
Maximum Modules in Series	4 (Single Use ONLY-after connected in Series, CAN NOT be in Parallel)
Maximum Modules in Parallel	4 (Single Use ONLY-after connected in Parallel, CAN NOT be in Series)



# LITHIUM-ION

## ENERGY STORAGE BATTERY

### RLC-2.7-X1

25.6V | 105AH

CUBE  
SERIES



#### Bluetooth APP

Ability to monitor real-time battery status



#### High Scalability

Supports Parallel/Series Connection



#### Affordability

Cost effective design to maximize return on investment



#### Smart BMS

Provides safety and long battery life



#### IP65 Design

Offers protection from Dust and Water



#### Compact Build

Light weight Design and Convenient Installation

# DATA SHEET

## Product Specification

Model	RLC-2.7-X1
Battery Cell Chemistry	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
Cell String	1P8S
Nominal Voltage	25.6 V
Battery Capacity	105 Ah (25°C, 0.2C)
Nominal Energy	2688 Wh
Operating Voltage Range	20.8 V - 29.2 V
Charging limited Voltage [V]	29.2 V
Charge Mode	CC/CV (0.5C to 29.2V, then 29.2V until charge current less than 0.02C)
Discharge Cut-off Voltage [V]	20.8 V
Recommended Charge/ Discharge Current	50 A
Max.continuous Charge/ Discharge Current	75 A
Peak Charge/Discharge current	80 A @ 60 s
Case Material	ABS
Dimension [L*W*H]	502*186*243 mm (±3mm)
Weight (KG)	20 Kg ± 1 Kg
Terminal Type	M8

Operating Temperature Range	Charge: 0°C ~ +55°C Discharge: -20°C ~ +60°C
Storage Temperature	-20 ~ +35°C
Humidity	5% ~ 95%
Altitude (m)	<2000
IP Class	IP65
Design Life	5+ Years
Cycle Life	5000 cycles @ 0.5C @ 25°C @ 80% DOD
BMS Protection	Over charge/discharge, Over temperature, Short circuit, etc
Communication	Blue Tooth Access APP-Real-time monitoring Battery Status include capacity, voltage, current, cycles, SOC, SOH, cell voltage, temperature
Maximum Modules in Series	2 (Single Use ONLY-after connected in Series, CAN NOT be in Parallel.)
Maximum Modules in Parallel	2 (Single Use ONLY-after connected in Parallel, CAN NOT be in Series.)

# **PHOENIX**

**BATTERIES**



**CENTURY ENGINEERING INDUSTRIES (PVT.) LTD.**