

## 12.8V / 25.6V Li-ion Battery DATASHEET

2021



#### **Ritar International Group**

10th Floor, Building 1C, Software Industry Base, Xuefu Road, Nanshan District, Shenzhen, Guangdong, China

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

No.1 Huagong Road, Songmu Industrial Park, Shigu District, Hengyang, Hunan, 421001, China

## **12.8V Series** (Standard product 801\*\*\*)



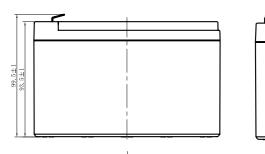
Model	Part Number	Rated Voltage [V]	Rated Capacity [Ah]	Length [mm]	Width [mm]	Height [mm]	Weight [Kg]	Terminal	Remark
<u>R-LFP12.8V6Ah</u>	<u>8010128000601</u>	12.8	6	151	65	93.5	0.82	F2	
R-LFP12.8V8Ah	8010128000801	12.8	8	151	65	93.5	0.98	F2	
R-LFP12.8V9Ah	8010128000901	12.8	9	151	65	93.5	1.1	F2	
R-LFP12.8V12Ah	8010128001201	12.8	12	151	65	93.5	1.21	F2	
R-LFP12.8V12Ah	8010128001202	12.8	12	151	98	95	1.5	F2	
R-LFP12.8V18Ah	8010128001801	12.8	18	151	98	95	1.96	F2	
R-LFP12.8V18Ah	8010128001802	12.8	18	151	98	95	1.96	T4	
R-LFP12.8V20Ah	8010128002001	12.8	20	181	77	167	2.9	F13-BP (Ф12, М5)	
R-LFP12.8V24Ah	8010128002401	12.8	24	181	77	167	3.8	F13-BP (Ф12, М5)	
R-LFP12.8V30Ah	8010128003001	12.8	30	195	130	155	5	IF11 (Φ14, M6)	
R-LFP12.8V35Ah	8010128003501	12.8	35	195	130	155	4.83	IF11 (Φ14, M6)	
R-LFP12.8V40Ah	8010128004001	12.8	40	195	130	155	4.87	IF11 (Ф14, M6)	
R-LFP12.8V40Ah	8010128004002	12.8	40	198	166	169	4.95	IF11 (Φ14, M6)	
R-LFP12.8V50Ah	8010128005001	12.8	50	198	166	169	6.5	IF11 (Φ14, M6)	
R-LFP12.8V75Ah	8010128007501	12.8	75	260	168	211	10	F12 (Ф17.5, M8)	
R-LFP12.8V80Ah	8010128008001	12.8	80	260	168	211	10	F12 (Ф17.5, M8)	
R-LFP12.8V100Ah	8010128010001	12.8	100	330	172	214	13.4	F12 (Ф17.5, M8)	
R-LFP12.8V100Ah	8010128010002	12.8	100	306	168	220	12.9	F12 (Ф17.5, M8)	
R-LFP12.8V100Ah	8010128012003	12.8	100	355	176	190	15	/	Car battery case
R-LFP12.8V135Ah	8010128013501	12.8	135	330	172	214	19	F12 (Ф17.5, M8)	
R-LFP12.8V150Ah	8010128015001	12.8	150	483	170	241	20	F12 (Φ17.5, M8)	
R-LFP12.8V200Ah	8010128020001	12.8	200	522	240	219	25.6	F10 (Ф20, M8)	
R-LFP12.8V280Ah	8010128028001	12.8	280	522	240	219	31	F10 (Ф20, M8)	
R-LFP12.8V300Ah	8010128030001	12.8	300	522	268	220	32	F10 (Φ20, M8)	

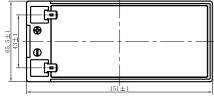


**LFP Li-ion Battery** 



#### **Dimension:**





#### SAFETY

- Cylindrical LiFePO4 cells (32700-6Ah), High + consistency, long cycle life and much more safety.
- UN38.3, CE certification for system. The cycle life over 2000 times @80%DOD +
- +

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- + Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- Independent protection for charge and discharge. +
- Over voltage, low voltage, over temperature and short + circuit protection.

Unit: mm

**Li-ion Battery** 

# 12.8V6Ah

#### Specification

RITAR

Model	R-LFP12.8V6Ah
Part Number	8010128000601
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	6
Total Energy [Wh]	76.8
Max. Charging Current [A]	6
Recommended Charging Current [A]	3
Charging Voltage [V]	14.6
Max. Discharging Current [A]	6
End of Dicharge Voltage [V]	11.2
Pulse Discharge Current	12A @ 10s
Dimension [W*D*H, mm]	151*65*93.5
Weight [Kg]	0.82
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃
BMS Protection	Over charge Over discharge, Over temperature, Short circuit
Parallel Support	Yes, Max 2 Sets
Series Support	Yes, Max 4 Sets
Cycle Life	>2000
Designed Calendar Life	>10 Years
Certification	UN38.3, CE, MSDS

Note: 1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

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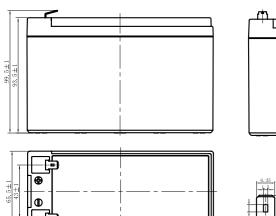


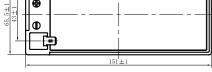


LFP Li-ion Battery



**Dimension:** 





#### SAFETY

- Cylindrical LiFePO4 cells (26700-4Ah), High consistency, long cycle life and much more safety. +
- + UN38.3, CE certification for system.
  + The cycle life over 2000 times @80%DOD

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- + Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- Independent protection for charge and discharge.
- Over voltage, low voltage, over temperature and short + circuit protection.

Unit: mm

0.83±0.02

### **Li-ion Battery**

## 12.8V8Ah

#### Specification

RITAR

Model	R-LFP12.8V8Ah
Part Number	8010128000801
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	8
Total Energy [Wh]	100.8
Max. Charging Current [A]	8
Recommended Charging Current [A]	4
Charging Voltage [V]	14.6
Max. Discharging Current [A]	8
End of Dicharge Voltage [V]	11.2
Pulse Discharge Current	12A @ 10s
Dimension [W*D*H, mm]	151*65*93.5
Weight [Kg]	0.98
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃
BMS Protection	Over charge Over discharge, Over temperature, Short circuit
Parallel Support	Yes, Max 2 Sets
Series Support	Yes, Max 4 Sets
Cycle Life	>2000
Designed Calendar Life	>10 Years
Certification	UN38.3, CE, MSDS

Note:

1.80% DOD and to 80% of initial capacity.

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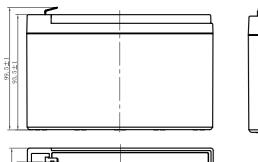


12.8V9Ah

LFP Li-ion Battery



#### **Dimension**:





#### SAFETY

- Cylindrical LiFePO4 cells (21700-3Ah), High + consistency, long cycle life and much more safety.
- UN38.3, CE certification for system.
- The cycle life over 2000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance.
- -20~+55° C widely temperature range.
- Maintenance free. +

### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside.
- Independent protection for charge and discharge.
- Over voltage, low voltage, over temperature and short circuit protection.

Unit: mm

Note:

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1.80% DOD and to 80% of initial capacity.

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Designed Calendar Life

Parallel Support

Series Support

Cycle Life

Certification

## 12.8V9Ah Specification Model Part Number Nominal Voltage [V] Nominal Capacity [Ah] Total Energy [Wh] Max. Charging Current [A] Recommended Charging Current [A] Charging Voltage [V] Max. Discharging Current [A] End of Dicharge Voltage [V] Pulse Discharge Current Dimension [W\*D\*H, mm] Weight [Kg] **Operation Humidity Operating Temperature Range BMS** Protection

**Li-ion Battery** 

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R-LFP12.8V9Ah
8010128000901

12.8
9
115.2
9
4.5
14.6
9
11.2
12A @ 10s
151*65*93.5
1.10
0~95% RH (No condensing)
Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃
Over charge Over discharge, Over temperature, Short circuit
Yes, Max 2 Sets
Yes, Max 4 Sets
>2000

>10 Years

UN38.3, CE, MSDS

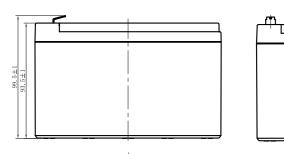


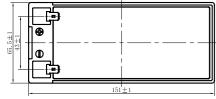
12.8V12Ah

LFP Li-ion Battery



#### **Dimension:**





#### SAFETY

- + Cylindrical LiFePO4 cells (21700-3Ah), High consistency, long cycle life and much more safety.
- + UN38.3, CE certification for system.
- + The cycle life over 2000 times @80%DOD

#### DESIGN

- + ABS container, replace VRLA battery perfectly.
- + Fast charge performance.
- + -20~+55° C widely temperature range.
- + Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- + Integrated hardware BMS inside.
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, over temperature and short circuit protection.

Unit: mm

0.83±0.02

### The data

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Note:

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1.80% DOD and to 80% of initial capacity.

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## 12.8V12Ah

**Li-ion Battery** 

#### Specification

Model	R-LFP12.8V12Ah
Part Number	8010128001201
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	12
Total Energy [Wh]	153.6
Max. Charging Current [A]	12
Recommended Charging Current [A]	6
Charging Voltage [V]	14.6
Max. Discharging Current [A]	12
End of Dicharge Voltage [V]	11.2
Pulse Discharge Current	30A @ 10s
Dimension [W*D*H, mm]	151*65*93.5
Weight [Kg]	1.21
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 °C
BMS Protection	Over charge Over discharge, Over temperature, Short circuit
Parallel Support	Yes, Max 2 Sets
Series Support	Yes, Max 4 Sets
Cycle Life	>2000
Designed Calendar Life	>10 Years
Certification	UN38.3, CE, MSDS





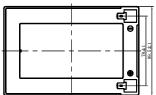


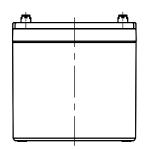
12.8V12Ah

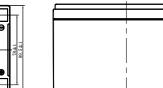
LFP Li-ion Battery



**Dimension:** 









- Cylindrical LiFePO4 cells (32700-6Ah), High consistency, long cycle life and much more safety.
- UN38.3, CE certification for system. +
- The cycle life over 2000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- + -20~+55° C widely temperature range.
- + Maintenance free.

### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- Independent protection for charge and discharge.
- Over voltage, low voltage, over temperature and short + circuit protection.

Unit: mm

F2 Terminal

0.83±0.02

### The datasheet is subject to change without prior notification

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1.80% DOD and to 80% of initial capacity.

Li-ion Battery

# 12.8V12Ah

#### Specification

Model	R-LFP12.8V12Ah
Part Number	8010128001202
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	12
Total Energy [Wh]	153.6
Max. Charging Current [A]	12
Recommended Charging Current [A]	6
Charging Voltage [V]	14.6
Max. Discharging Current [A]	12
End of Dicharge Voltage [V]	11.2
Pulse Discharge Current	30A @ 10s
Dimension [W*D*H, mm]	151*98*95
Weight [Kg]	1.50
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃
BMS Protection	Over charge Over discharge, Over temperature, Short circuit
Parallel Support	Yes, Max 2 Sets
Series Support	Yes, Max 4 Sets
Cycle Life	>2000
Designed Calendar Life	>10 Years
Certification	UN38.3, CE, MSDS

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Note:





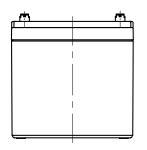
12.8V18Ah

### LFP Li-ion Battery

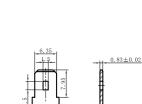


#### **Dimension**:











#### SAFETY

- Cylindrical LiFePO4 cells (32700-6Ah), High consistency, long cycle life and much more safety.
- UN38.3, CE certification for system. +
- The cycle life over 2000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- + -20~+55° C widely temperature range.
- + Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- Independent protection for charge and discharge.
- Over voltage, low voltage, over temperature and short + circuit protection.

Unit: mm

Note:

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1.80% DOD and to 80% of initial capacity.

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Part Number Nominal Voltage [V]

Li-ion Battery

Specification

Model

12.8V18Ah

Nominal Voltage [V]	
Nominal Capacity [Ah]	
Total Energy [Wh]	
Max. Charging Current [A]	
Recommended Charging Current [A]	
Charging Voltage [V]	
Max. Discharging Current [A]	
End of Dicharge Voltage [V]	
Pulse Discharge Current	
Dimension [W*D*H, mm]	
Weight [Kg]	
Operation Humidity	
Operating Temperature Range	
BMS Protection	
Parallel Support	
Series Support	
Cycle Life	
Designed Calendar Life	
Certification	

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R-LFP12.8V18Ah
8010128001801
12.8
18
230.4
18
9
14.6
18
11.2
50A @ 10s
151*98*95
1.96
0~95% RH (No condensing)
Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃
Over charge Over discharge, Over temperature, Short circuit
Yes, Max 2 Sets
Yes, Max 4 Sets
>2000
>10 Years
UN38.3, CE, MSDS

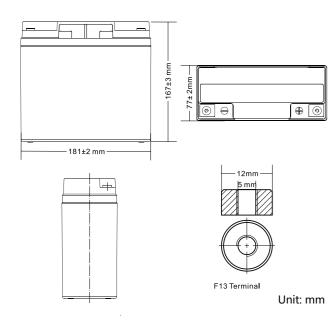


12.8V20Ah

LFP Li-ion Battery



#### **Dimension:**



#### SAFETY

- + Cylindrical LiFePO4 cells (32650-5Ah), High consistency, long cycle life and much more safety.
- + UN38.3, CE certification for system.
- + The cycle life over 2000 times @80%DOD

#### DESIGN

- + ABS container, replace VRLA battery perfectly.
- + Fast charge performance.
- + -20~+55° C widely temperature range.
- + Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- + Integrated hardware BMS inside.
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, over temperature and short circuit protection.

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Li-ion Battery

# 12.8V20Ah

#### Specification

Model	R-LFP12.8V20Ah
Part Number	8010128002001
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	20
Total Energy [Wh]	256
Max. Charging Current [A]	20
Recommended Charging Current [A]	10
Charging Voltage [V]	14.6
Max. Discharging Current [A]	20
End of Dicharge Voltage [V]	11.2
Pulse Discharge Current	50A @ 10s
Dimension [W*D*H, mm]	181*77*167
Weight [Kg]	2.90
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃
BMS Protection	Over charge Over discharge, Over temperature, Short circuit
Parallel Support	Yes, Max 2 Sets
Series Support	Yes, Max 4 Sets
Cycle Life	>2000
Designed Calendar Life	>10 Years
Certification	UN38.3, CE, MSDS

Note: 1. 80% DOD and to 80% of initial capacity.

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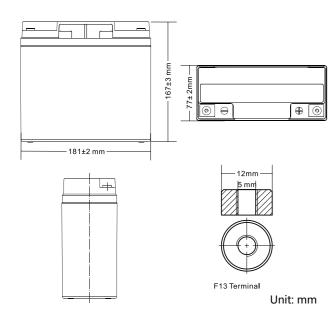




**LFP Li-ion Battery** 



#### **Dimension:**



#### SAFETY

- Cylindrical LiFePO4 cells (32700-6Ah), High + consistency, long cycle life and much more safety. UN38.3, CE certification for system.
- +
- The cycle life over 2000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- + Fast charge performance.
- -20~+55° C widely temperature range. +
- + Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- Independent protection for charge and discharge. +
- Over voltage, low voltage, over temperature and short + circuit protection.

### **Li-ion Battery**

# 12.8V24Ah

#### Specification

RITAR

Model	R-LFP12.8V24Ah
Part Number	8010128002401
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	24
Total Energy [Wh]	307.2
Max. Charging Current [A]	24
Recommended Charging Current [A]	12
Charging Voltage [V]	14.6
Max. Discharging Current [A]	24
End of Dicharge Voltage [V]	11.2
Pulse Discharge Current	50A @ 10s
Dimension [W*D*H, mm]	181*77*167
Weight [Kg]	3.80
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 °C
BMS Protection	Over charge Over discharge, Over temperature, Short circuit
Parallel Support	Yes, Max 2 Sets
Series Support	Yes, Max 4 Sets
Cycle Life	>2000
Designed Calendar Life	>10 Years
Certification	UN38.3, CE, MSDS

Note:

1.80% DOD and to 80% of initial capacity.

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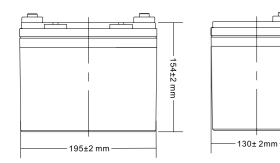


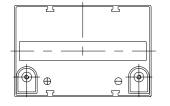
RITAR

**LFP Li-ion Battery** 



#### **Dimension:**







Unit: mm

#### SAFETY

- Cylindrical LiFePO4 cells (32700-6Ah), High + consistency, long cycle life and much more safety.
- UN38.3, CE certification for system. +
- The cycle life over 2000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- Maintenance free. +

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- Independent protection for charge and discharge. +
- Over voltage, low voltage, over temperature and short + circuit protection.

**Li-ion Battery** 

# 12.8V30Ah

#### Specification

Model	R-LFP12.8V30Ah
Part Number	8010128003001
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	30
Total Energy [Wh]	384
Max. Charging Current [A]	30
Recommended Charging Current [A]	15
Charging Voltage [V]	14.6
Max. Discharging Current [A]	30
End of Dicharge Voltage [V]	11.2
Pulse Discharge Current	50A @ 10s
Dimension [W*D*H, mm]	195*130*155
Weight [Kg]	5.0
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃
BMS Protection	Over charge Over discharge, Over temperature, Short circuit
Parallel Support	Yes, Max 2 Sets
Series Support	Yes, Max 4 Sets
Cycle Life	>2000
Designed Calendar Life	>10 Years
Certification	UN38.3, CE, MSDS

Note:

1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

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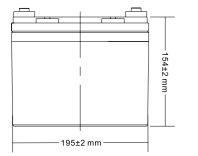


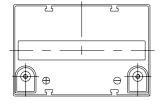


**LFP Li-ion Battery** 



#### **Dimension:**







F11 TERMINAL

-130±2mm

#### SAFETY

- Prismatic LiFePO4 cells (38Ah), High consistency, long + cycle life and much more safety. UN38.3, CE certification for system.
- +
- The cycle life over 3000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- Maintenance free. +

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- Independent protection for charge and discharge. +
- Over voltage, low voltage, over temperature and short + circuit protection.

Unit: mm

## 0

The datasheet is subject to change without prior notification

1.80% DOD and to 80% of initial capacity.

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

Note:

### **Li-ion Battery**

## 12.8V35Ah

#### Specification

RITAR

Model	R-LFP12.8V35Ah	
Part Number	8010128003501	
Nominal Voltage [V]	12.8	
Nominal Capacity [Ah]	35	
Total Energy [Wh]	448	
Max. Charging Current [A]	35	
Recommended Charging Current [A]	17.5	
Charging Voltage [V]	14.6	
Max. Discharging Current [A]	35	
End of Dicharge Voltage [V]	11.2	
Pulse Discharge Current	50A @ 10s	
Dimension [W*D*H, mm]	195*130*155	
Weight [Kg]	4.83	
Operation Humidity	0~95% RH (No condensing)	
Operating Temperature Range	Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃	
BMS Protection	Over charge Over discharge, Over temperature, Short circuit	
Parallel Support	Yes, Max 2 Sets	
Series Support	Yes, Max 4 Sets	
Cycle Life	>3000	
Designed Calendar Life	>10 Years	
Certification	UN38.3, CE, MSDS	

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Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

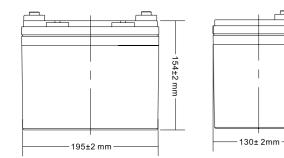


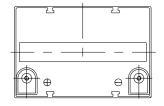


**LFP Li-ion Battery** 



#### **Dimension:**







Unit: mm

#### SAFETY

- Prismatic LiFePO4 cells (40Ah), High consistency, long + cycle life and much more safety.
- UN38.3, CE certification for system. +
- + The cycle life over 3000 times @80%DOD

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- Maintenance free. +

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- Independent protection for charge and discharge. +
- Over voltage, low voltage, over temperature and short + circuit protection.

**Li-ion Battery** 

# 12.8V40Ah

#### Specification

RITAR

Model	R-LFP12.8V40Ah	
Part Number	8010128004001	
Nominal Voltage [V]	12.8	
Nominal Capacity [Ah]	40	
Total Energy [Wh]	512	
Max. Charging Current [A]	40	
Recommended Charging Current [A]	20	
Charging Voltage [V]	14.6	
Max. Discharging Current [A]	40	
End of Dicharge Voltage [V]	11.2	
Pulse Discharge Current	50A @ 10s	
Dimension [W*D*H, mm]	195*130*155	
Weight [Kg]	4.87	
Operation Humidity	0~95% RH (No condensing)	
Operating Temperature Range	Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃	
BMS Protection	Over charge Over discharge, Over temperature, Short circuit	
Parallel Support	Yes, Max 2 Sets	
Series Support	Yes, Max 4 Sets	
Cycle Life	>3000	
Designed Calendar Life	>10 Years	
Certification	UN38.3, CE, MSDS	

Note: 1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

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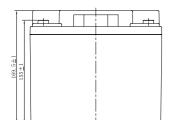


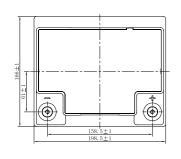






#### **Dimension**:





#### SAFETY

- Prismatic LiFePO4 cells (40Ah), High consistency, long + cycle life and much more safety.
- UN38.3, CE certification for system.
- The cycle life over 3000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly.
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- Independent protection for charge and discharge.
- Over voltage, low voltage, over temperature and short + circuit protection.

Unit: mm

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Note:

The datasheet is subject to change without prior notification

1.80% DOD and to 80% of initial capacity.

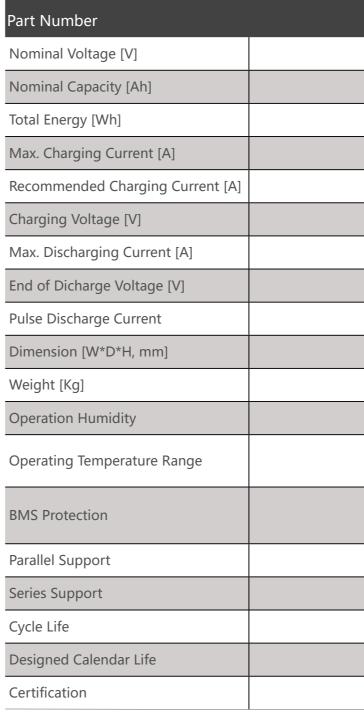
Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

**Li-ion Battery** 

Specification

Model

12.8V40Ah



Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

No.1 Huagong Road, Songmu Industrial Park, Shigu District, Hengyang, Hunan, 421001, China



R-LFP12.8V40Ah
28010128004002

12.8	
40	
512	
40	
20	
14.6	
40	
11.2	

50A @ 10s

195\*166\*169

#### 4.95

0~95% RH (No condensing)

Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 ℃

Over charge Over discharge, Over temperature, Short circuit

Yes, Max 2 Sets

Yes, Max 4 Sets

>3000

>10 Years

UN38.3, CE, MSDS

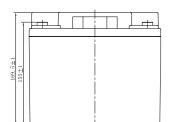


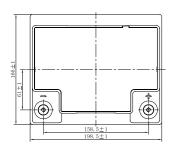


LFP Li-ion Battery



#### **Dimension**:





#### SAFETY

- Prismatic LiFePO4 cells (50Ah), High consistency, long + cycle life and much more safety.
- UN38.3, CE certification for system.
- + The cycle life over 3000 times @80%DOD

#### DESIGN

- ABS container, replace VRLA battery perfectly.
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- Independent protection for charge and discharge.
- Over voltage, low voltage, over temperature and short + circuit protection.

Unit: mm

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The datasheet is subject to change without prior notification

1.80% DOD and to 80% of initial capacity.

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

Designed Calendar Life

**Li-ion Battery** 

Specification

Part Number

Nominal Voltage [V]

Total Energy [Wh]

Charging Voltage [V]

Nominal Capacity [Ah]

Max. Charging Current [A]

Max. Discharging Current [A]

End of Dicharge Voltage [V]

Pulse Discharge Current

Dimension [W\*D\*H, mm]

**Operating Temperature Range** 

**Operation Humidity** 

**BMS** Protection

Parallel Support

Series Support

Cycle Life

Certification

Weight [Kg]

Recommended Charging Current [A]

Model

12.8V50Ah

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

No.1 Huagong Road, Songmu Industrial Park, Shigu District, Hengyang, Hunan, 421001, China

Note:



R-LFP12.8V50Ah
8010128005001
12.8
50
115.2
50
25
14.6
50
11.2
100A @ 10s
198*166*169
6.50
0~95% RH (No condensing)
Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃
Over charge Over discharge, Over temperature, Short circuit
Yes, Max 2 Sets
Yes, Max 4 Sets
>3000
>10 Years
UN38.3, CE, MSDS

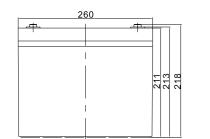


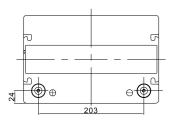
# 12.8V75Ah

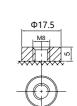
LFP Li-ion Battery



### **Dimension:**







Unit: mm

169

#### SAFETY

- + Prismatic LiFePO4 cells (38Ah), High consistency, long cycle life and much more safety.
- + UN38.3, CE certification for system.
- + The cycle life over 3000 times @80%DOD

#### DESIGN

- + ABS container, replace VRLA battery perfectly.
- + Fast charge performance.
- + -20~+55° C widely temperature range.
- + Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- + Integrated hardware BMS inside.
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, over temperature and short circuit protection.

-

Li-ion Battery

# 12.8V75Ah

#### Specification

Model	R-LFP12.8V75Ah	
Part Number	8010128007501	
Nominal Voltage [V]	12.8	
Nominal Capacity [Ah]	75	
Total Energy [Wh]	960	
Max. Charging Current [A]	75	
Recommended Charging Current [A]	37.5	
Charging Voltage [V]	14.6	
Max. Discharging Current [A]	75	
End of Dicharge Voltage [V]	11.2	
Pulse Discharge Current	150A @ 10s	
Dimension [W*D*H, mm]	260*168*211	
Weight [Kg]	10.0	
Operation Humidity	0~95% RH (No condensing)	
Operating Temperature Range	Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 °C	
BMS Protection	Over charge Over discharge, Over temperature, Short circuit	
Parallel Support	Yes, Max 2 Sets	
Series Support	Yes, Max 4 Sets	
Cycle Life	>3000	
Designed Calendar Life	>10 Years	
Certification	UN38.3, CE, MSDS	

Note:

1. 80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

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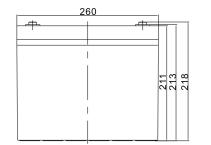


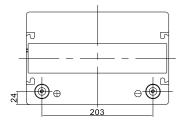
# 12.8V80Ah

**LFP Li-ion Battery** 



#### **Dimension:**





### SAFETY

169

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Φ17.5

Unit: mm

- Prismatic LiFePO4 cells (40Ah), High consistency, long + cycle life and much more safety.
- + UN38.3, CE certification for system.
  + The cycle life over 3000 times @80%DOD

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- + Maintenance free.

### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, over temperature and short circuit protection.

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**Li-ion Battery** 

# 12.8V80Ah

#### Specification

Model	R-LFP12.8V80Ah	
Part Number	8010128008001	
Nominal Voltage [V]	12.8	
Nominal Capacity [Ah]	80	
Total Energy [Wh]	1024	
Max. Charging Current [A]	80	
Recommended Charging Current [A]	40	
Charging Voltage [V]	14.6	
Max. Discharging Current [A]	80	
End of Dicharge Voltage [V]	11.2	
Pulse Discharge Current	150A @ 10s	
Dimension [W*D*H, mm]	260*168*211	
Weight [Kg]	10.0	
Operation Humidity	0~95% RH (No condensing)	
Operating Temperature Range	Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃	
BMS Protection	Over charge Over discharge, Over temperature, Short circuit	
Parallel Support	Yes, Max 2 Sets	
Series Support	Yes, Max 4 Sets	
Cycle Life	>3000	
Designed Calendar Life	>10 Years	
Certification	UN38.3, CE, MSDS	

Note: 1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

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R-LFP12.8V80Ah
8010128008001

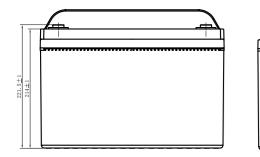


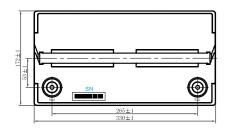


LFP Li-ion Battery



**Dimension**:





#### SAFETY

- Prismatic LiFePO4 cells (50Ah), High consistency, long + cycle life and much more safety. UN38.3, CE certification for system.
- The cycle life over 3000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- -20~+55° C widely temperature range.
- + Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, over temperature and short circuit protection.

Unit: mm

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### Li-ion Battery

## 12.8V100Ah

#### Specification

Model	
Part Number	
Nominal Voltage [V]	
Nominal Capacity [Ah]	
Total Energy [Wh]	
Max. Charging Current [A]	
Recommended Charging Current [A]	
Charging Voltage [V]	
Max. Discharging Current [A]	
End of Dicharge Voltage [V]	
Pulse Discharge Current	
Dimension [W*D*H, mm]	
Weight [Kg]	
Operation Humidity	
Operating Temperature Range	
BMS Protection	
Parallel Support	
Series Support	
Cycle Life	
Designed Calendar Life	
Certification	

#### Note:

1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

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Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

No.1 Huagong Road, Songmu Industrial Park, Shigu District, Hengyang, Hunan, 421001, China

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R-LFP12.8V100Ah
8010128010001

12.8	
100	
1280	
100	
50	
14.6	
100	
11.2	

270A @ 10s

330\*172\*214

13.4

0~95% RH (No condensing)

Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 ℃

Over charge Over discharge, Over temperature, Short circuit

Yes, Max 2 Sets

Yes, Max 4 Sets

>3000

>10 Years

UN38.3, CE, MSDS

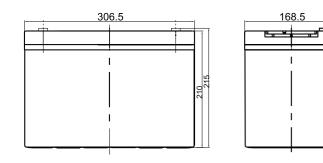


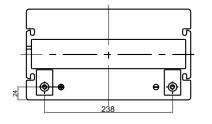
# 12.8V100Ah

LFP Li-ion Battery



#### **Dimension**:





### SAFETY

- Prismatic LiFePO4 cells (50Ah), High consistency, long + cycle life and much more safety.
- UN38.3, CE certification for system
- The cycle life over 3000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly.
- Fast charge performance. +
- -20~+55° C widely temperature range.
- + Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- Independent protection for charge and discharge.
- Over voltage, low voltage, over temperature and short + circuit protection.

Unit: mm

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168.5

### The datasheet is subject to change without prior notification

Certification

Note:

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Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

Designed Calendar Life

1.80% DOD and to 80% of initial capacity.

**Li-ion Battery** 

## 12.8V100Ah Specification Model Part Number Nominal Voltage [V] Nominal Capacity [Ah] Total Energy [Wh] Max. Charging Current [A] Recommended Charging Current [A] Charging Voltage [V] Max. Discharging Current [A] End of Dicharge Voltage [V] Pulse Discharge Current Dimension [W\*D\*H, mm] Weight [Kg] **Operation Humidity Operating Temperature Range BMS** Protection Parallel Support Series Support Cycle Life



R-LFP12.8V100Ah
8010128010002

12.8	
100	
1280	
100	
50	
14.6	
100	
11.2	

270A @ 10s

306\*168\*210

12.9

0~95% RH (No condensing)

Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 ℃

Over charge Over discharge, Over temperature, Short circuit

Yes, Max 2 Sets

Yes, Max 4 Sets

>3000

>10 Years

UN38.3, CE, MSDS

**LFP Li-ion Battery** 

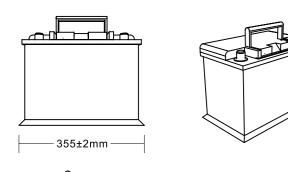


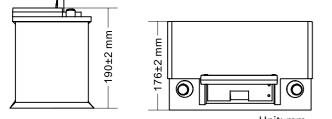
# 12.8V100Ah





**Dimension:** 





Unit: mm

### SAFETY

- Prismatic LiFePO4 cells (50Ah), High consistency, long + cycle life and much more safety. UN38.3, CE certification for system.
- +
- + The cycle life over 3000 times @80%DOD

### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- Maintenance free. +

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- + Independent protection for charge and discharge.
- Over voltage, low voltage, over temperature and short + circuit protection.

### Li-ion Battery

# 12.8V100Ah

### Specification

Model	R-LFP12.8V100Ah					
Part Number	8010128010003					
Nominal Voltage [V]	12.8					
Nominal Capacity [Ah]	100					
Total Energy [Wh]	1280					
Max. Charging Current [A]	100					
Recommended Charging Current [A]	50					
Charging Voltage [V]	14.6					
Max. Discharging Current [A]	100					
End of Dicharge Voltage [V]	11.2					
Pulse Discharge Current	270A @ 10s					
Dimension [W*D*H, mm]	355*176*190					
Weight [Kg]	15.0					
Operation Humidity	0~95% RH (No condensing)					
Operating Temperature Range	Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃					
BMS Protection	Over charge Over discharge, Over temperature, Short circuit					
Parallel Support	Yes, Max 2 Sets					
Series Support	Yes, Max 4 Sets					
Cycle Life	>3000					
Designed Calendar Life	>10 Years					
Certification	UN38.3, CE, MSDS					

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Note: 1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

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R-LFP12.8V100Ah
8010128010003

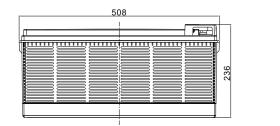


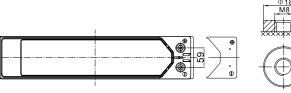
# 12.8V 100Ah

**LFP Li-ion Battery** 



#### **Dimension:**





### SAFETY

110

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F12 Terminal Unit: mm

- Prismatic LiFePO4 cells (50Ah), High consistency, long + cycle life and much more safety.
- UN38.3, CE certification for system. +
- + The cycle life over 3000 times @80%DOD

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- + Maintenance free.

### **BATTERY MANAGEMENT SYSTEM (BMS)**

- + Integrated hardware BMS inside.
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, over temperature and short circuit protection.

Li-ion Battery

# 12.8V100Ah

### Specification

Model	R-LFP12.8V100Ah					
Part Number	8010128010004					
Nominal Voltage [V]	12.8					
Nominal Capacity [Ah]	100					
Total Energy [Wh]	1280					
Max. Charging Current [A]	100					
Recommended Charging Current [A]	50					
Charging Voltage [V]	14.6					
Max. Discharging Current [A]	100					
End of Dicharge Voltage [V]	11.2					
Pulse Discharge Current	270A @ 10s					
Dimension [W*D*H, mm]	151*65*93.5					
Weight [Kg]	14.5					
Operation Humidity	0~95% RH (No condensing)					
Operating Temperature Range	Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃					
BMS Protection	Over charge Over discharge, Over temperature, Short circuit					
Parallel Support	Yes, Max 2 Sets					
Series Support	Yes, Max 4 Sets					
Cycle Life	>3000					
Designed Calendar Life	>10 Years					
Certification	UN38.3, CE, MSDS					

Note:

1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

No.1 Huagong Road, Songmu Industrial Park, Shigu District, Hengyang, Hunan, 421001, China

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R-LFP12.8V100Ah
8010128010004

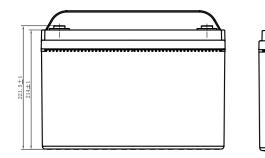


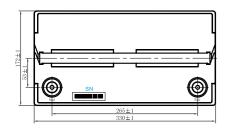
12.8V135Ah

LFP Li-ion Battery



**Dimension**:





#### SAFETY

- Prismatic LiFePO4 cells (135Ah), High consistency, + long cycle life and much more safety.
- UN38.3, CE certification for system.
- The cycle life over 3000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance.
- -20~+55° C widely temperature range.
- Maintenance free. +

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside. +
- Independent protection for charge and discharge.
- Over voltage, low voltage, over temperature and short circuit protection.

Unit: mm

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The datasheet is subject to change without prior notification

1.80% DOD and to 80% of initial capacity.

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

**Li-ion Battery** 

Specification

Part Number

Nominal Voltage [V]

Total Energy [Wh]

Charging Voltage [V]

Nominal Capacity [Ah]

Max. Charging Current [A]

Max. Discharging Current [A]

End of Dicharge Voltage [V]

Pulse Discharge Current

Dimension [W\*D\*H, mm]

**Operating Temperature Range** 

**Operation Humidity** 

**BMS** Protection

Parallel Support

Weight [Kg]

Recommended Charging Current [A]

Model

12.8V135Ah

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

No.1 Huagong Road, Songmu Industrial Park, Shigu District, Hengyang, Hunan, 421001, China



Note:



R-LFP12.8V135Ah
8010128013501
12.8
135
1728
100
67.5
14.6
100
11.2
270A @ 10s
330*172*214
19.0
0~95% RH (No condensing)
Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃
Over charge Over discharge, Over temperature, Short circuit
Yes, Max 2 Sets
Yes, Max 4 Sets
>3000
>10 Years

For more information, contact with: sales@ritarpower.com

UN38.3, CE, MSDS

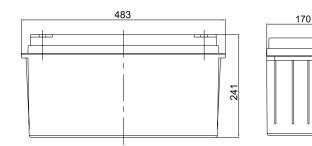


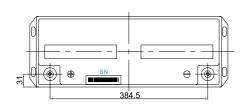
12.8V150Ah





#### **Dimension:**





### SAFETY

- Prismatic LiFePO4 cells (50Ah), High consistency, long cycle life and much more safety.
- + UN38.3, CE certification for system.
- + The cycle life over 3500 times @80%DOD

#### DESIGN

- + ABS container, replace VRLA battery perfectly.
- + Fast charge performance.
- + -20~+55° C widely temperature range.
- + Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- + Integrated hardware BMS inside.
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, over temperature and short circuit protection.

Unit: mm

The datasheet is subject to change without prior notification

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

## Li-ion Battery 12.8V150Ah

#### Specification

Model	R-LFP12.8V150Ah					
Part Number	8010128015001					
Nominal Voltage [V]	12.8					
Nominal Capacity [Ah]	150					
Total Energy [Wh]	1920					
Max. Charging Current [A]	100					
Recommended Charging Current [A]	75					
Charging Voltage [V]	14.6					
Max. Discharging Current [A]	100					
End of Dicharge Voltage [V]	11.2					
Pulse Discharge Current	270A @ 10s					
Dimension [W*D*H, mm]	483*170*241					
Weight [Kg]	20.00					
Operation Humidity	0~95% RH (No condensing)					
Operating Temperature Range	Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃					
BMS Protection	Over charge Over discharge, Over temperature, Short circuit					
Parallel Support	Yes, Max 2 Sets					
Series Support	Yes, Max 4 Sets					
Cycle Life	>3500					
Designed Calendar Life	>10 Years					
Certification	UN38.3, CE, MSDS					

Note: 1. 80% DOD and to 80% of initial capacity.

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd. No.1 Huagong Road, Songmu Industrial Park, Shigu District, Hengyang, Hunan, 421001, China

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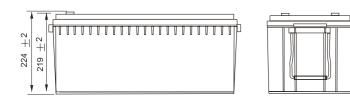
12.8V200Ah

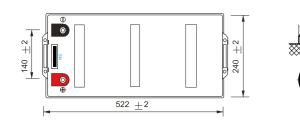


LFP Li-ion Battery



#### **Dimension**:





#### SAFETY

- Prismatic LiFePO4 cells (205Ah), High consistency, + long cycle life and much more safety.
- UN38.3, CE certification for system. +
- The cycle life over 3500 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- + Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside.
- Independent protection for charge and discharge.
- Over voltage, low voltage, over temperature and short circuit protection.

Unit: mm

Ð

Note:

The datasheet is subject to change without prior notification

1.80% DOD and to 80% of initial capacity.

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

**Li-ion Battery** 

Specification

Part Number

Nominal Voltage [V]

Total Energy [Wh]

Charging Voltage [V]

Nominal Capacity [Ah]

Max. Charging Current [A]

Max. Discharging Current [A]

End of Dicharge Voltage [V]

Pulse Discharge Current

Dimension [W\*D\*H, mm]

**Operating Temperature Range** 

**Operation Humidity** 

**BMS** Protection

Parallel Support

Series Support

Designed Calendar Life

Cycle Life

Certification

Weight [Kg]

Recommended Charging Current [A]

Model

12.8V200Ah

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

No.1 Huagong Road, Songmu Industrial Park, Shigu District, Hengyang, Hunan, 421001, China



R-LFP12.8V200Ah

### 8010128020001

12.8	
200	
2560	
100	
80	
14.6	
100	
11.2	

270A @ 10s

522\*240\*219

25.6

0~95% RH (No condensing)

Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 ℃

Over charge Over discharge, Over temperature, Short circuit

Yes, Max 2 Sets

Yes, Max 4 Sets

>3500

>10 Years

UN38.3, CE, MSDS

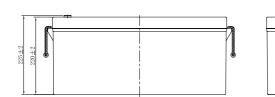


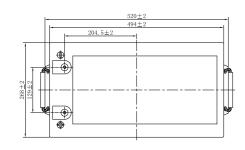
# 12.8V 300Ah CE 🚳 🗘 🗵

**LFP Li-ion Battery** 



#### **Dimension**:





#### SAFETY

- Prismatic LiFePO4 cells (100Ah), High consistency, + long cycle life and much more safety.
- UN38.3, CE certification for system.
- The cycle life over 3500 times @80%DOD +

#### DESIGN

Hunan, 421001, China

- ABS container, replace VRLA battery perfectly. Fast charge performance. +
- + -20~+55° C widely temperature range.
- + Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- Integrated hardware BMS inside.
- Independent protection for charge and discharge.
- + Over voltage, low voltage, over temperature and short circuit protection.

Unit: mm

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The datasheet is subject to change without prior notification

1.80% DOD and to 80% of initial capacity.

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

Specification	
Model	
Part Number	
Nominal Voltage [V]	
Nominal Capacity [Ah]	
Total Energy [Wh]	
Max. Charging Current [A]	
Recommended Charging Cur	rent [A]
Charging Voltage [V]	
Max. Discharging Current [A]	
End of Dicharge Voltage [V]	
Pulse Discharge Current	
Dimension [W*D*H, mm]	
Weight [Kg]	
Operation Humidity	
Operating Temperature Rang	e
BMS Protection	
Parallel Support	
Series Support	
Cycle Life	
Designed Calendar Life	
Certification	

**Li-ion Battery** 



### R-LFP12.8V300Ah 8010128030001

12.8 300 3840 100 80 14.6

100

11.2

270A @ 10s

522\*268\*220

32.00

0~95% RH (No condensing)

Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 ℃

Over charge Over discharge, Over temperature, Short circuit

Yes, Max 2 Sets

Yes, Max 4 Sets

>3500

>10 Years

UN38.3, CE, MSDS

## **12.8V Series** (Bluetoot product 811\*\*\*, High Current Product 911\*\*)



Model	Part Number	Rated Voltage [V]	Rated Capacity [Ah]	Length [mm]	Width [mm]	Height [mm]	Weight [Kg]	Terminal	Remark
R-LFP12.8V100Ah	8110128012001	12.8	100	330	172	214	13.4	F12 (Ф17.5, M8)	Bluetooth
R-LFP12.8V135Ah	8110128013501	12.8	135	330	172	214	19	F12 (Ф17.5, M8)	Bluetooth
R-LFP12.8V150Ah	8110128015001	12.8	150	483	170	241	20	F12 (Ф17.5, M8)	Bluetooth
R-LFP12.8V150Ah	9110128015001	12.8	150	483	170	241	20	F12 (Ф17.5, M8)	150A discharge current
R-LFP12.8V200Ah	9110128020001	12.8	200	522	240	219	25.6	F10 (Ф20, M8)	150A discharge current

# 12.8V100Ah

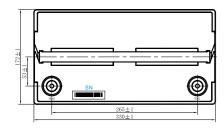
**Bluetooth Battery** 



Ð

Unit: mm

**Dimension**:



#### **SAFETY**

- Prismatic LiFePO4 cells, High consistency, long cycle + life and much more safety.
- UN38.3, CE certification for system. The cycle life over 3000 times @80%DOD +

#### DESIGN

+

- ABS container, replace VRLA battery perfectly.
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- + Maintenance free.

#### BATTERY MANAGEMENT SYSTEM (BMS)

- + Integrated hardware BMS inside.
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, Over Current, Over temperature, Low temperature and short circuit protection.
- + Bluetooth communication, APP for Android and iPhone.

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

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### **Li-ion Battery** 12.8V100Ah

#### **Specification**

RITAR<sup>©</sup>

Specification						
Model	R-LFP12.8V100Ah					
Part Number	8110128010001					
Nominal Voltage [V]	12.8					
Nominal Capacity [Ah]	100					
Total Energy [Wh]	1280					
Max. Charging Current [A]	100					
Recommended Charging Current [A]	50					
Charging Voltage [V]	14.6					
Max. Discharging Current [A]	100					
End of Dicharge Voltage [V]	11.2					
Pulse Discharge Current	300A @ 1s					
Dimension [W*D*H, mm]	330*172*214					
Weight [Kg]	13.4					
Operation Humidity	0~95% RH (No condensing)					
Operating Temperature Range	Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃					
BMS Protection	Over charge Over discharge, Over current (Charge 110A@1s, Discharge 300A@1s) Over temperature (Charge 65°C ,Discharge 75°C )					
Parallel Support	No Support					
Series Support	Yes, Max 4 Sets					
Cycle Life	>3000					
Designed Calendar Life	>10 Years					
Communication	Bluetooth (APP for Android and iPhone)					

Note:

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1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification



# 12.8V135Ah

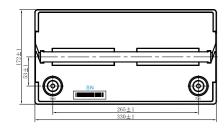
**Bluetooth Battery** 



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Unit: mm

**Dimension**:



#### **SAFETY**

- Prismatic LiFePO4 cells, High consistency, long cycle life and much more safety. +
- UN38.3, CE certification for system. The cycle life over 3000 times @80%DOD +

#### DESIGN

+

- ABS container, replace VRLA battery perfectly.
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- + Maintenance free.

#### BATTERY MANAGEMENT SYSTEM (BMS)

- + Integrated hardware BMS inside.
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, Over Current, Over temperature, Low temperature and short circuit protection.
- + Bluetooth communication, APP for Android and iPhone.

RITAR

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### **Li-ion Battery** 12.8V 135Ah

#### **Specification**

Specification					
Model	R-LFP12.8V135Ah				
Part Number	8110128013501				
Nominal Voltage [V]	12.8				
Nominal Capacity [Ah]	100 1728 100 67.5				
Total Energy [Wh]					
Max. Charging Current [A]					
Recommended Charging Current [A]					
Charging Voltage [V]	14.6				
Max. Discharging Current [A]	100				
End of Dicharge Voltage [V]	11.2				
Pulse Discharge Current	300A @ 1s				
Dimension [W*D*H, mm]	330*172*214				
Weight [Kg]	19.0				
Operation Humidity	0~95% RH (No condensing)				
Operating Temperature Range	Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 °C Over charge Over discharge, Over current (Charge 110A@1s, Discharge 300A@1s) Over temperature (Charge 65°C, Discharge 75°C)				
BMS Protection					
Parallel Support	No Support				
Series Support	Yes, Max 4 Sets				
Cycle Life	> 3000				
Designed Calendar Life	>10 Years				
Communication	Bluetooth (APP for Android and iPhone)				

Note:

0

1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

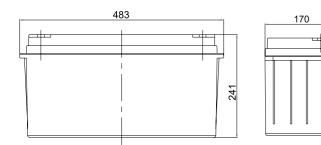


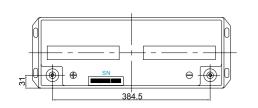
## 12.8V 150Ah

**Bluetooth Battery** 



#### **Dimension**:





Unit: mm

#### **SAFETY**

- Prismatic LiFePO4 cells, High consistency, long cycle + life and much more safety.
- UN38.3, CE certification for system. The cycle life over 3000 times @80%DOD

#### DESIGN

+

- ABS container, replace VRLA battery perfectly.
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- + Maintenance free.

#### BATTERY MANAGEMENT SYSTEM (BMS)

- + Integrated hardware BMS inside.
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, Over Current, Over temperature, Low temperature and short circuit protection.
- + Bluetooth communication, APP for Android and iPhone.

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### **Li-ion Battery** 12.8V 150Ah

#### **Specification**

RITAR

Specification					
Model	R-LFP12.8V150Ah				
Part Number	8110128015001				
Nominal Voltage [V]	12.8				
Nominal Capacity [Ah]	150 1920 100 75				
Total Energy [Wh]					
Max. Charging Current [A]					
Recommended Charging Current [A]					
Charging Voltage [V]	14.6				
Max. Discharging Current [A]	100 11.2				
End of Dicharge Voltage [V]					
Pulse Discharge Current	300A @ 1s				
Dimension [W*D*H, mm]	483*170*241				
Weight [Kg]	19.0				
Operation Humidity	0~95% RH (No condensing)				
Operating Temperature Range	Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 °C				
BMS Protection	Over charge Over discharge, Over current (Charge 110A@1s, Discharge 300A@1s) Over temperature (Charge 65°C ,Discharge 75°C )				
Parallel Support	No Support				
Series Support	Yes, Max 4 Sets				
Cycle Life	>3000				
Designed Calendar Life	>10 Years				
Communication	Bluetooth (APP for Android and iPhone)				

Note:

0

1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

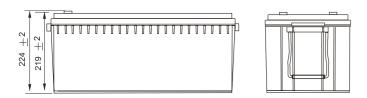


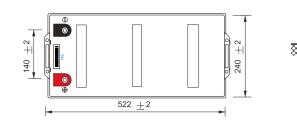
# 12.8V200Ah

### **Bluetooth Battery**



#### **Dimension**:





**SAFETY** 

- Prismatic LiFePO4 cells, High consistency, long cycle + life and much more safety.
- +
- UN38.3, CE certification for system. The cycle life over 3000 times @80%DOD +

#### DESIGN

+

Unit: mm

- ABS container, replace VRLA battery perfectly.
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- + Maintenance free.

#### BATTERY MANAGEMENT SYSTEM (BMS)

- + Integrated hardware BMS inside.
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, Over Current, Over temperature, Low temperature and short circuit protection.
- + Bluetooth communication, APP for Android and iPhone.

**Li-ion Battery** 12.8V200Ah

#### **Specification**

RITAR

Specification					
Model	R-LFP12.8V200Ah				
Part Number	8110128020001				
Nominal Voltage [V]	12.8				
Nominal Capacity [Ah]	200				
Total Energy [Wh]	2560				
Max. Charging Current [A]	100				
Recommended Charging Current [A]	80				
Charging Voltage [V]	14.6				
Max. Discharging Current [A]	100				
End of Dicharge Voltage [V]	11.2				
Pulse Discharge Current	300A @ 1s				
Dimension [W*D*H, mm]	522*240*219				
Weight [Kg]	25.6				
Operation Humidity	0~95% RH (No condensing)				
Operating Temperature Range	Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃				
BMS Protection	Over charge Over discharge, Over current (Charge 110A@1s, Discharge 300A@1s) Over temperature (Charge 65°C ,Discharge 75°C )				
Parallel Support	No Support				
Series Support	Yes, Max 4 Sets				
Cycle Life	> 3000				
Designed Calendar Life	>10 Years				
Communication	Bluetooth (APP for Android and iPhone)				

Note:

0

1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

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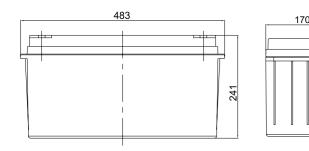


# 12.8V150Ah





#### **Dimension:**





### SAFETY

- Prismatic LiFePO4 cells, High consistency, long cycle life and much more safety. +
- +
- UN38.3, CE certification for system. The cycle life over 3000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- + -20~+55° C widely temperature range.
- + Maintenance free.

#### BATTERY MANAGEMENT SYSTEM (BMS)

- + Integrated hardware BMS inside.
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, Over temperature and short circuit protection.

Unit: mm

### 0.

**Li-ion Battery** 12.8V 150Ah

#### Specification

Model	
Part Number	
Nominal Voltage [V]	
Nominal Capacity [Ah]	
Total Energy [Wh]	
Max. Charging Current [A]	
Recommended Charging Current [A]	
Charging Voltage [V]	
Max. Discharging Current [A]	
End of Dicharge Voltage [V]	
Pulse Discharge Current	
Dimension [W*D*H, mm]	
Weight [Kg]	
Operation Humidity	
Operating Temperature Range	
BMS Protection	
Parallel Support	
Series Support	
Cycle Life	
Designed Calendar Life	

Note: 1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

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No.1 Huagong Road, Songmu Industrial Park, Shigu District, Hengyang, Hunan, 421001, China



R-LFP12.8V150Ah
9110128015001
12.8
150
1920
150
75
14.6
150
11.2
300A @ 10s
483*170*241
20.0
0~95% RH (No condensing)
Charge: 0 ~ +50 ℃; Discharge: -20 ~ +55 ℃
Over charge Over discharge, Over temperature, Short circuit
Yes, Max 2 Sets
Yes, Max 4 Sets
>3000
>10 Years



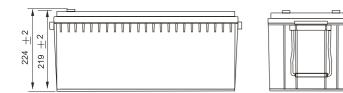
### LFP Li-ion Battery-150A Current

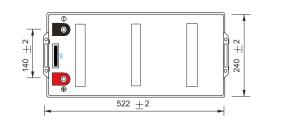






**Dimension:** 





#### SAFETY

- Prismatic LiFePO4 cells, High consistency, long cycle + life and much more safety.
- + UN38.3, CE certification for system.
- The cycle life over 3000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- -20~+55° C widely temperature range.
- + Maintenance free.

#### BATTERY MANAGEMENT SYSTEM (BMS)

- + Integrated hardware BMS inside.
- Independent protection for charge and discharge.
- + Over voltage, low voltage, Over temperature and short circuit protection.

Unit: mm

A

**Li-ion Battery** 

## 12.8V200Ah

#### **Specification**

Model Part Number	
Fait Nulliber	
Nominal Voltage [V]	
Nominal Capacity [Ah]	
Total Energy [Wh]	
Max. Charging Current [A]	
Recommended Charging Current [A]	
Charging Voltage [V]	
Max. Discharging Current [A]	
End of Dicharge Voltage [V]	
Pulse Discharge Current	
Dimension [W*D*H, mm]	
Weight [Kg]	
Operation Humidity	
Operating Temperature Range	
BMS Protection	
Parallel Support	
Series Support	
Cycle Life	
Designed Calendar Life	

Note: 1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

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R-LFP12.8V200Ah	١
9110128020001	

12.8	
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200 2560

150

100

14.6

150

11.2

300A @ 10s

522\*240\*219

25.6

0~95% RH (No condensing)

Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 ℃

Over charge Over discharge, Over temperature, Short circuit

Yes, Max 2 Sets

Yes, Max 4 Sets

>3000

>10 Years

### **25.6V Series** (Standard product 801\*\*\*)



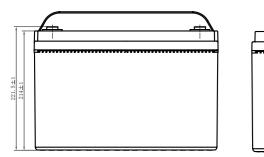
Model	Part Number	Rated Voltage [V]	Rated Capacity [Ah]	Length [mm]		Height [mm]	Weight [Kg]	Terminal	Remark
R-LFP25.6V50Ah	8010256005001	25.6	50	330	172	214	15	F12 (Ф17.5, M8)	
R-LFP25.6V100Ah	8010256010001	25.6	100	522	240	219	25.2	F10 (Ф20, M8)	
R-LFP25.6V135Ah	8010256013501	25.6	135	522	240	219	31	F10 (Ф20, M8)	
R-LFP25.6V150Ah	8010256015001	25.6	150	522	268	219	35	F10 (Ф20, M8)	
R-LFP25.6V200Ah	8010256020001	25.6	200	522	268	219	40	F10 (Φ20, M8)	

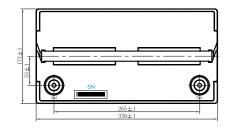
# 25.6V 50Ah

**LFP Li-ion Battery** 



**Dimension:** 





#### SAFETY

Prismatic LiFePO4 cells (50Ah), High consistency, long + cycle life and much more safety.

- UN38.3, CE certification for system.
- The cycle life over 3000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly.
- Fast charge performance.
- -20~+55° C widely temperature range. +
- Maintenance free. +

#### BATTERY MANAGEMENT SYSTEM (BMS)

- Integrated hardware BMS inside.
- Independent protection for charge and discharge.
- Over voltage, low voltage, over temperature and short + circuit protection.

Unit: mm

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Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

The datasheet is subject to change without prior notification

Li-ion Battery

Specification

Part Number

Nominal Voltage [V]

Total Energy [Wh]

Nominal Capacity [Ah]

Max. Charging Current [A]

Model

25.6V50Ah

Recommended Charging Current [A]				
Charging Voltage [V]				
Max. Discharging Current [A]				
End of Dicharge Voltage [V]				
Pulse Discharge Current				
Dimension [W*D*H, mm]				
Weight [Kg]				
Operation Humidity				
Operating Temperature Range				
BMS Protection				
Parallel Support				
Series Support				
Cycle Life				
Designed Calendar Life				
Certification				
Note: 1. 80% DOD and to 80% of initial capacity.				

No.1 Huagong Road, Songmu Industrial Park, Shigu District, Hengyang, Hunan, 421001, China

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.



### R-LFP25.6V50Ah 8010256005001

25.6

50 1280

50

25

29.2

50

22.4

100A @ 10s

330\*172\*214

15.0

0~95% RH (No condensing)

Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 ℃

Over charge Over discharge, Over temperature, Short circuit

Yes. Max 2 Sets

No Support

>3000

>10 Years

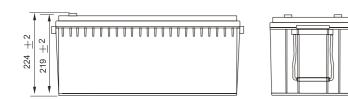
UN38.3, CE, MSDS

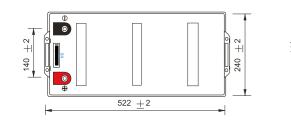
# 25.6V100Ah

LFP Li-ion Battery



### **Dimension:**





#### SAFETY

Prismatic LiFePO4 cells (50Ah), High consistency, long + cycle life and much more safety.

- UN38.3, CE certification for system.
- The cycle life over 3000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly. +
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- Maintenance free. +

#### BATTERY MANAGEMENT SYSTEM (BMS)

- Integrated hardware BMS inside.
- Independent protection for charge and discharge.
- Over voltage, low voltage, over temperature and short + circuit protection.

Unit: mm

### **Li-ion Battery**

# 25.6V100Ah

### Specification

Model
Part Number
Nominal Voltage [V]
Nominal Capacity [Ah]
Total Energy [Wh]
Max. Charging Current [A]
Recommended Charging Current [A]
Charging Voltage [V]
Max. Discharging Current [A]
End of Dicharge Voltage [V]
Pulse Discharge Current
Dimension [W*D*H, mm]
Weight [Kg]
Operation Humidity
Operating Temperature Range
BMS Protection
Parallel Support
Series Support
Cycle Life
Designed Calendar Life
Certification

Note:

1. 80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

No.1 Huagong Road, Songmu Industrial Park, Shigu District, Hengyang, Hunan, 421001, China



### R-LFP25.6V100Ah 8010256010001

25.6

100 2560

100

50

29.2

100

22.4

270A @ 10s

522\*240\*219

25.2

0~95% RH (No condensing)

Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 ℃

Over charge Over discharge, Over temperature, Short circuit

Yes. Max 2 Sets

No Support

>3000

>10 Years

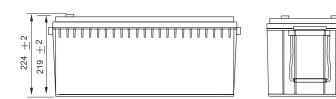
UN38.3, CE, MSDS

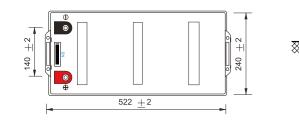
# 25.6V135Ah

LFP Li-ion Battery



#### **Dimension:**





#### SAFETY

+ Prismatic LiFePO4 cells (135Ah), High consistency, long cycle life and much more safety.

- + UN38.3, CE certification for system.
- + The cycle life over 3000 times @80%DOD

#### DESIGN

- + ABS container, replace VRLA battery perfectly.
- + Fast charge performance.
- + -20~+55° C widely temperature range.
- + Maintenance free.

#### **BATTERY MANAGEMENT SYSTEM (BMS)**

- + Integrated hardware BMS inside.
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, over temperature and short circuit protection.

Unit: mm

### **Li-ion Battery**

# 25.6V135Ah

### Specification

Model	
Part Number	
Nominal Voltage [V]	
Nominal Capacity [Ah]	
Total Energy [Wh]	
Max. Charging Current [A]	
Recommended Charging Current [A]	
Charging Voltage [V]	
Max. Discharging Current [A]	
End of Dicharge Voltage [V]	
Pulse Discharge Current	
Dimension [W*D*H, mm]	
Weight [Kg]	
Operation Humidity	
Operating Temperature Range	
BMS Protection	
Parallel Support	
Series Support	
Cycle Life	
Designed Calendar Life	
Certification	

Note:

1. 80% DOD and to 80% of initial capacity.



### 8010256013501

135 3456

100

67.5

29.2

100

22.4

270A @ 10s

522\*240\*219

31.0

0~95% RH (No condensing)

Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 °C

Over charge Over discharge, Over temperature, Short circuit

Yes, Max 2 Sets

No Support

>3000

>10 Years

UN38.3, CE, MSDS

The datasheet is subject to change without prior notification

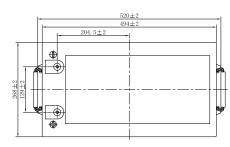
# 25.6V150Ah

LFP Li-ion Battery



#### **Dimension:**





#### SAFETY

- + Prismatic LiFePO4 cells (50Ah), High consistency, long cycle life and much more safety.
- + UN38.3, CE certification for system.
- + The cycle life over 3000 times @80%DOD

#### DESIGN

- + ABS container, replace VRLA battery perfectly.
- + Fast charge performance.
- + -20~+55° C widely temperature range.
- + Maintenance free.

#### BATTERY MANAGEMENT SYSTEM (BMS)

- + Integrated hardware BMS inside.
- + Independent protection for charge and discharge.
- + Over voltage, low voltage, over temperature and short circuit protection.

Unit: mm

 $(\Phi)$ 

### **Li-ion Battery**

# 25.6V150Ah

#### Specification

RITAR

specification	
Model	
Part Number	
Nominal Voltage [V]	
Nominal Capacity [Ah]	
Total Energy [Wh]	
Max. Charging Current [A]	
Recommended Charging Current [A]	
Charging Voltage [V]	
Max. Discharging Current [A]	
End of Dicharge Voltage [V]	
Pulse Discharge Current	
Dimension [W*D*H, mm]	
Weight [Kg]	
Operation Humidity	
Operating Temperature Range	
BMS Protection	
Parallel Support	
Series Support	
Cycle Life	
Designed Calendar Life	
Certification	

Note:

1. 80% DOD and to 80% of initial capacity.

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n: 1.0



### 8010256015001

150 3840

50-0

100

80

29.2

100

22.4

270A @ 10s

522\*268\*220

35.0

0~95% RH (No condensing)

Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 °C

Over charge Over discharge, Over temperature, Short circuit

Yes, Max 2 Sets

No Support

>3000

>10 Years

UN38.3, CE, MSDS

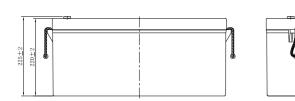
The datasheet is subject to change without prior notification

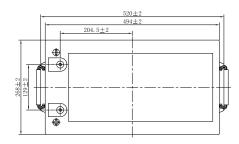
# 25.6V200Ah

LFP Li-ion Battery



**Dimension:** 





#### SAFETY

- Prismatic LiFePO4 cells (205Ah), High consistency, + long cycle life and much more safety.
- UN38.3, CE certification for system. +
- The cycle life over 3000 times @80%DOD +

#### DESIGN

- ABS container, replace VRLA battery perfectly.
- Fast charge performance. +
- -20~+55° C widely temperature range. +
- Maintenance free.

#### BATTERY MANAGEMENT SYSTEM (BMS)

- + Integrated hardware BMS inside.
- Independent protection for charge and discharge. +
- Over voltage, low voltage, over temperature and short + circuit protection.

Unit: mm

 $(\Phi)$ 

### **Li-ion Battery**

# 25.6V200Ah

### Specification

RITAR

specification	
Model	
Part Number	
Nominal Voltage [V]	
Nominal Capacity [Ah]	
Total Energy [Wh]	
Max. Charging Current [A]	
Recommended Charging Current [A]	
Charging Voltage [V]	
Max. Discharging Current [A]	
End of Dicharge Voltage [V]	
Pulse Discharge Current	
Dimension [W*D*H, mm]	
Weight [Kg]	
Operation Humidity	
Operating Temperature Range	
BMS Protection	
Parallel Support	
Series Support	
Cycle Life	
Designed Calendar Life	
Certification	

Note:

1.80% DOD and to 80% of initial capacity.

Hengyang Ritar Power Co., Ltd. Hengyang Rich Power Co., Ltd.

No.1 Huagong Road, Songmu Industrial Park, Shigu District, Hengyang, Hunan, 421001, China



### R-LFP25.6V200Ah

### 8010256020001

200 5120

100

80

29.2

100

22.4

270A @ 10s

522\*268\*220

40.0

0~95% RH (No condensing)

Charge: 0 ~ +50 °C; Discharge: -20 ~ +55 ℃

Over charge Over discharge, Over temperature, Short circuit

Yes. Max 2 Sets

No Support

>3000

>10 Years

UN38.3, CE, MSDS

The datasheet is subject to change without prior notification