

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

Model R-LFP12.8V6Ah R-LFP12.8V8Ah R-LFP12.8V9Ah R-LFP12.8V12Ah R-LFP12.8V12Ah R-LFP12.8V12Ah R-LFP12.8V20Ah R-LFP12.8V20Ah R-LFP12.8V24Ah	Part Number 8010128000601 8010128000801 8010128000901 8010128001201 8010128001201 8010128001202 8010128001202 8010128001201 8010128001202 8010128001201 8010128002001 8010128002001 8010128002401 8010128003001	Rated [V] 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8	R ~	Length [mm] 151 151 151 151 151 151 181 181 195	Width [mm] 65 65 65 98 98 77 77 130	Height [mm] 93.5 93.5 93.5 93.5 93.5 95 167 167 155	Weight [Kg] 0.82 0.98 1.1 1.21 1.21 1.21 1.5 1.96 2.9 3.8 3.8	A CONTRACTOR OF
o 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8010128000901 8010128001201 8010128001202 8010128001801 8010128002001 8010128002001 8010128002401 8010128003501	12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8	9 12 12 18 20 20 30 35	151 151 151 151 181 195	65 65 98 98 77 77 130	93.5 93.5 95 95 167 167 155		1.1 1.21 1.5 1.96 2.9 2.9 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8
8010 8010 8010	8010128003001 8010128003501 8010128004001	12.8 12.8	40 35	195 195	130 130	155 155		5 4.83 4.87
	8010128004002	12.8	40	198	166	169		4.95
	8010128005001	12.8	50	198	166	169		6.5
	8010128007501	12.8	75	260	168	211		10
	8010128010001	12.8	100	330	172	214		13.4
	8010128010002	12.8	100	306	168	220		12.9
	8010128012003 8010128012004	12.8	100	355	176 168	190 211		15 12.7
R-LFP12.8V135Ah	8010128013501	12.8	135	330	172	214		19
R-LFP12.8V150Ah	8010128015001	12.8	150	483	170	241		20
R-LFP12.8V200Ah	8010128020001	12.8	200	522	240	219		25.6
R-LFP12.8V300Ah	8010128030001	12.8	300	522	268	220		32

RITAR®

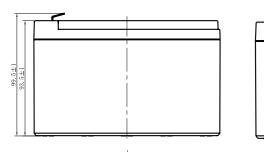
12.8V Series (Standard product 801***)

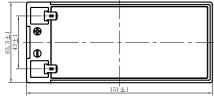


LFP Li-ion Battery



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.

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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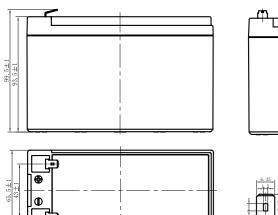




LFP Li-ion Battery



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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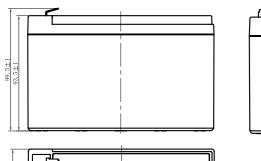


12.8V9Ah

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

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

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 Parallel Support Series Support Cycle Life Designed Calendar Life Certification Note: 1.80% DOD and to 80% of initial capacity.

Li-ion Battery

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

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



R-LFP12.8V9Ah
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

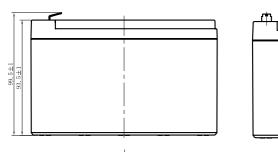
UN38.3, CE, MSDS



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

Li-ion Battery

12.8V12Ah

Specification

RITAR®

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 ℃; 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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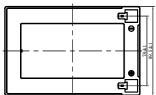


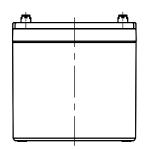
12.8V12Ah

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

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

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

Li-ion Battery

12 8V12Δh

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

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R-LFP12.8V12Ah
8010128001202
12.8
12
153.6
12
6
14.6
12
11.2
30A @ 10s
151*98*95
1.50
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
>2000
>10 Years
UN38.3, CE, MSDS

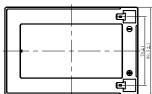


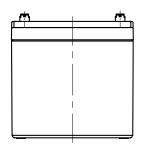
12.8V18Ah

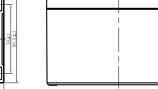
LFP Li-ion Battery

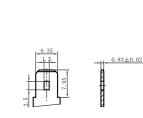


Dimension:









F2 Terminal

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

The datasheet is subject to change without prior notification

1.80% DOD and to 80% of initial capacity.

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

12.8V18Ah Specification

Li-ion Battery

Model	R-LFP12.8V18Ah
Part Number	8010128001801
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	18
Total Energy [Wh]	230.4
Max. Charging Current [A]	18
Recommended Charging Current [A]	9
Charging Voltage [V]	14.6
Max. Discharging Current [A]	18
End of Dicharge Voltage [V]	11.2
Pulse Discharge Current	50A @ 10s
Dimension [W*D*H, mm]	151*98*95
Weight [Kg]	1.96
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:

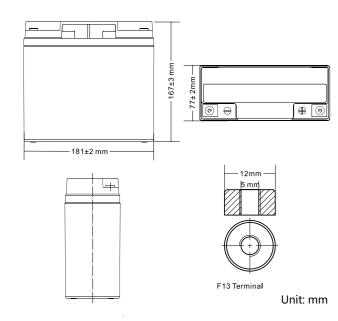




LFP Li-ion Battery



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.

Li-ion Battery

12.8V20Ah

Specification

RITAR®

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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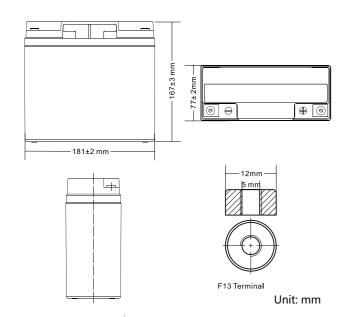




LFP Li-ion Battery



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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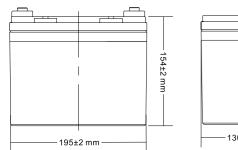


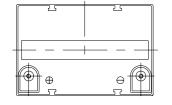
12.8V30Ah

LFP Li-ion Battery



Dimension:





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Unit: mm

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F11 TERMINAL

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.

0

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.

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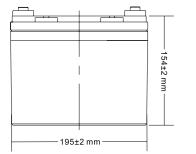


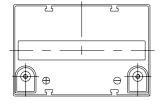


LFP Li-ion Battery



Dimension:







-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

Li-ion Battery

RITAR®

12.8V35Ah

Specification

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

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

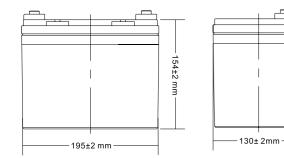


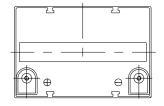


LFP Li-ion Battery



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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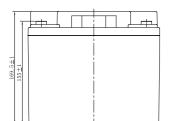


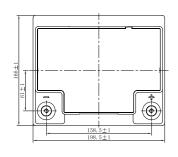


LFP Li-ion Battery



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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Li-ion Battery

12.8V40Ah

Specification

RITAR®

Model	R-LFP12.8V40Ah
Part Number	28010128004002
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*166*169
Weight [Kg]	4.95
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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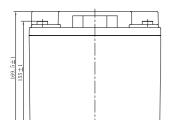
R-LFP12.8V40Ah
28010128004002

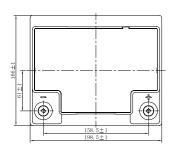


LFP Li-ion Battery



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

12.8V50Ah

Specification

RITAR®

Model	R-LFP12.8V50Ah
Part Number	8010128005001
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	50
Total Energy [Wh]	640
Max. Charging Current [A]	50
Recommended Charging Current [A]	25
Charging Voltage [V]	14.6
Max. Discharging Current [A]	50
End of Dicharge Voltage [V]	11.2
Pulse Discharge Current	100A @ 10s
Dimension [W*D*H, mm]	198*166*169
Weight [Kg]	6.50
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	>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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R-LFP12.8V50Ah
8010128005001

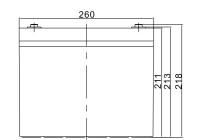


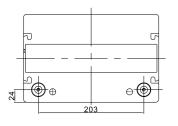
12.8V75Ah

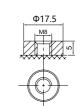
LFP Li-ion Battery



Dimension:







169

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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

The datasheet is subject to change without prior notification

Note:

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

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

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

BMS Protection

Parallel Support

Series Support

Designed Calendar Life

1.80% DOD and to 80% of initial capacity.

Cycle Life

Certification

12.8V75Ah	
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	

Li-ion Battery

0



R-LFP12.8V75Ah 8010128007501
12.8
75
960
75
37.5
14.6
75
11.2
150A @ 10s
260*168*211
10.0
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
UN38.3, CE, MSDS



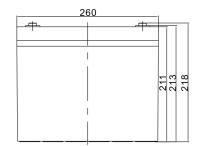
RITAR®

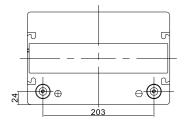


LFP Li-ion Battery



Dimension:





SAFETY

169

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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.

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

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

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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

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



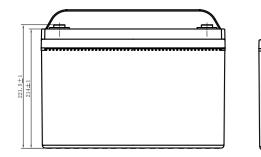
R-LFP12.8V80Ah
8010128008001

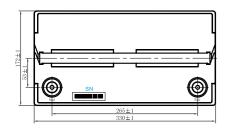


LFP Li-ion Battery



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

RITAR®

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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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
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

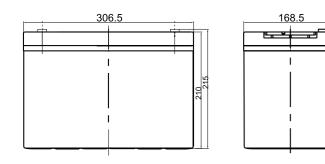


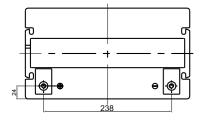
RITAR®

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

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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 temperature and short circuit protection.

Li-ion Battery

12.8V100Ah

Specification

Model	R-LFP12.8V100Ah
Part Number	8010128010002
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]	306*168*210
Weight [Kg]	12.9
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
8010128010002

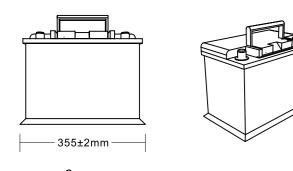


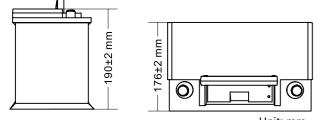
12.8V100Ah

LFP Li-ion Battery



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

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

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



R-LFP12.8V100Ah
8010128010003

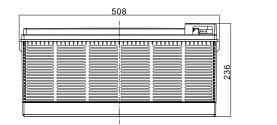


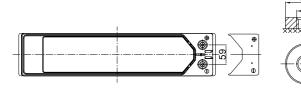
12.8V 100Ah (E 🚳 🟠 🖄

LFP Li-ion Battery



Dimension:





SAFETY

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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.

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.

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

12.8V100Ah

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

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



R-LFP12.8V100Ah
8010128010004

12.8	
100	
1280	
100	
50	
14.6	
100	
11.2	

270A @ 10s

151*65*93.5

14.5

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

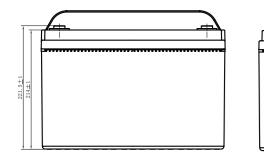


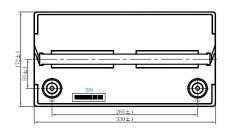
12.8V135Ah

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

Ð

ersion: 1.0

Li-ion Battery

12.8V135Ah

Specification

Model	R-LFP12.8V135Ah	
Part Number	8010128013501	
Nominal Voltage [V]	12.8	
Nominal Capacity [Ah]	135	
Total Energy [Wh]	1728	
Max. Charging Current [A]	100	
Recommended Charging Current [A]	67.5	
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]	330*172*214	
Weight [Kg]	19.0	
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

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



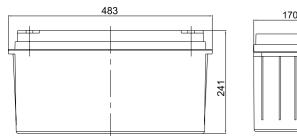


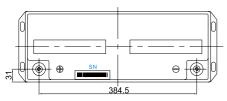
12.8V150Ah

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 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

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

Model

Specification

Li-ion Battery

12.8V150Ah

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:

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

0



R-LFP12.8V150Ah
8010128015001
12.8
150
1920
100
75
14.6
100
11.2
270A @ 10s
483*170*241
20.00
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
>3500
>10 Years
UN38.3, CE, MSDS

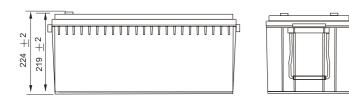


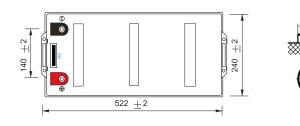
12.8V200Ah

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

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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

Li-ion Battery

12.8V200Ah

Specification

Vodel
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:

0

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

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



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 °C

Over charge Over discharge, Over temperature, Short circuit

Yes, Max 2 Sets

Yes, Max 4 Sets

>3500

>10 Years

UN38.3, CE, MSDS

The datasheet is subject to change without prior notification

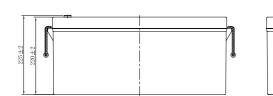
12.8V 300Ah CE 🚳 🖒 🖄

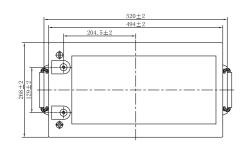
LFP Li-ion Battery





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

- 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

 (Φ)

The datasheet is subject to change without prior notification

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

1.80% DOD and to 80% of initial capacity.

Li-ion Battery

12.8V300Ah

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	
	•

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

Note:



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

				1					RITAR®
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	Bluetooth
R-LFP12.8V135Ah	8110128013501	12.8	135	330	172	214	19	F12 (Ф17.5, M8) Bluetooth	Bluetooth
R-LFP12.8V150Ah 8110128015001	8110128015001	12.8	150	483	170	241	20	F12 (Ф17.5, M8) Bluetooth	Bluetooth
R-LFP12.8V150Ah 9110128015001	9110128015001	12.8	150	483	170	241	20	F12 (Φ17.5, M8)	F12 (Ф17.5, M8) 150A discharge current
R-LFP12.8V200Ah 9110128020001	9110128020001	12.8	200	522	240	219	25.6	F10 (Ф20, M8)	150A discharge current

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



12.8V100Ah

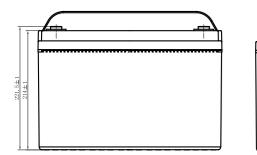
Bluetooth Battery

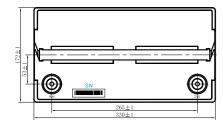


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Unit: mm

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.

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

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

Li-ion Battery 12.8V100Ah

Specification

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:

1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

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12.8V135Ah

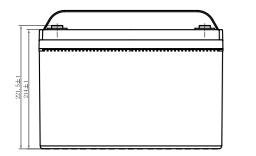
Bluetooth Battery

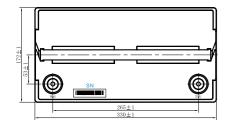


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Unit: mm

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.

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

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

Li-ion Battery 12.8V 135Ah

Specification

RITAR®

Model Part Number Nominal Voltage [V]	R-LFP12.8V135Ah 8110128013501 12.8
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	100
Total Energy [Wh]	1728
Max. Charging Current [A]	100
Recommended Charging Current [A]	67.5
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 ℃; Discharge: -20 ~ +55 ℃
BMS Protection Over current	Over charge Over discharge, t (Charge 110A@1s, Discharge 300A@1s) perature (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 Blueto	oth (APP for Android and iPhone)

Note:

1.80% DOD and to 80% of initial capacity.

The datasheet is subject to change without prior notification

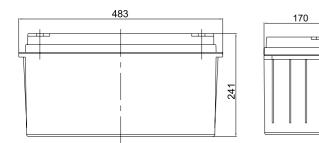


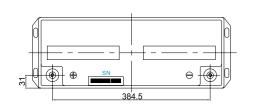
12.8V 150Ah

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.

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
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	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)

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

Note:

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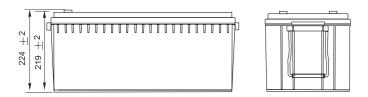


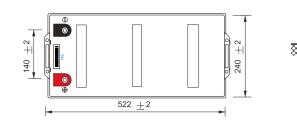
12.8V200Ah

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:

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



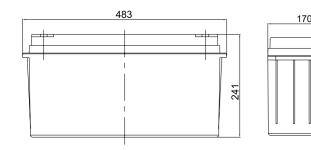


12.8V150Ah

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

Li-ion Battery 12.8V 150Ah

Specification

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

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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



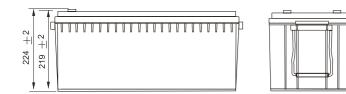
LFP Li-ion Battery-150A Current

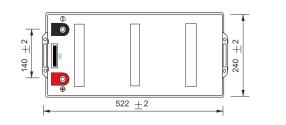






Dimension:





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

The datasheet is subject to change without prior notification

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

Li-ion Battery

Specification

Part Number

Nominal 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]

Weight [Kg]

Charging Voltage [V]

Recommended Charging Current [A]

Total Energy [Wh]

Model

12.8V200Ah

Operation Humidity	
Operating Temperature Range	
BMS Protection	C
Parallel Support	
Series Support	
Cycle Life	
Designed Calendar Life	
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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R-LFP12.8V200Ah 9110128020001

12.8

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]	Width [mm]	Height [mm]	Length Width Height Weight [mm] [mm] [mm] [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 (Ф20, M8)	

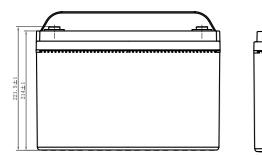
RITAR®

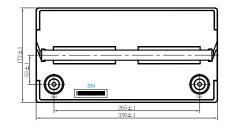
25.6V 50Ah

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

25.6V50Ah

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	
	1

Note: 1. 809

1.80% DOD and to 80% of initial capacity.

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



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 °C

Over charge Over discharge, Over temperature, Short circuit

Yes, Max 2 Sets

No Support

>3000

>10 Years

UN38.3, CE, MSDS

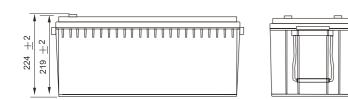
25.6V100Ah

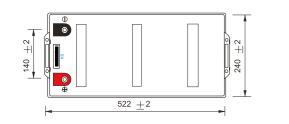
LFP Li-ion Battery





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

Madal
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.



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 °C

Over charge Over discharge, Over temperature, Short circuit

Yes, Max 2 Sets

No Support

>3000

>10 Years

UN38.3, CE, MSDS

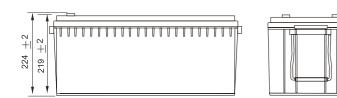
The datasheet is subject to change without prior notification

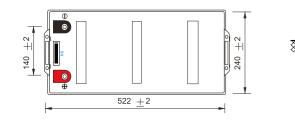
25.6V135Ah

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

RITAR®

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-LFP25.6V135Ah

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 ℃

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

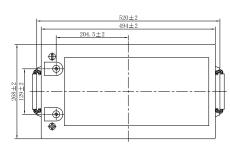
LFP Li-ion Battery





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

 (Φ)

Li-ion Battery

25.6V150Ah

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	
	1

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-LFP25.6V150Ah	١
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8010256015001

150 3840

100

80

29.2

100

22.4

270A @ 10s

522*268*220

35.0

0~95% RH (No condensing)

Charge: 0 ~ +50 ℃; 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

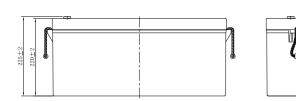
25.6V200Ah

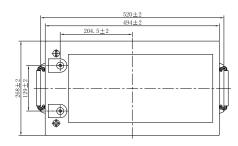
LFP Li-ion Battery





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

 (Φ)

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

Li-ion Battery

25.6V200Ah

Specification

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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The datasheet is subject to change without prior notification



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