

Product Features

Applied to Forklift, Golf carts, electric motors etc.

- Safe and reliable hardware protection plate.
- High-temp and low-temp charging protection.
- Over-charge, over-discharge, over-current and short circuit protection.
- Provide balancing function.
- Long cycle life, wide working temp range, time for replacement of lead-acid battery.
- 300A continuous discharge current.

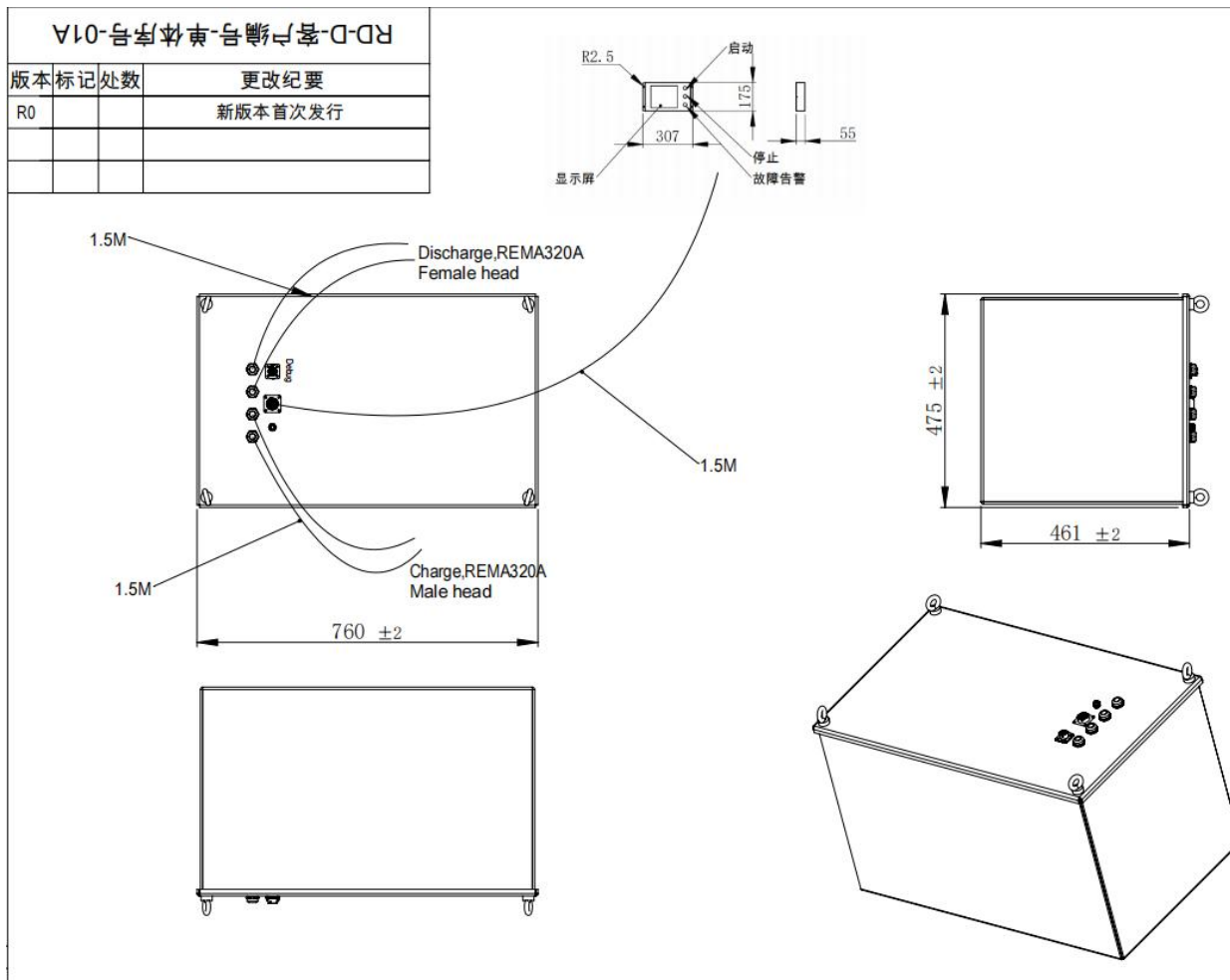
Technical Specifications

GENERAL PARAMETERS		
Battery Type		LiFePO4
Usable Capacity		20480Wh @C2, 25°C
Nominal Voltage		51.2VDC
Operating Voltage Range		40VDC – 58.4V DC
Operating Temperature Range		-20°C – 60°C
Cycle Life @ 100% DoD		>3000cycles (@C2, 25°C)
Cycle Life @ 80% DoD		> 3500cycles (@C2, 25°C)
Dimensions (mm)		760mm x 475mm x461mm (L x W x H)
Weight (kg)		Appro245kg
Charge Current (max.)		250A continuous
Discharge Current (max.)		300A continuous
Charge Method (CC/CV)	Standard	100A×4hrs
	Quick	150A×3hrs
Over-charge Protection		3.65V
Over-charge Release		3.4V
Under-discharge Protection		2.5V
Under-discharge Release		2.6V
Over-current Protection		600A
Over-current Delay		3 S
Short circuit Protection		Have
Short circuit Protection Delay		500 uS
Charging Over-temperature Protection		55°C
Charging Under-temperature Protection		-5°C
Discharge Over-temperature Protection		60°C
Discharge Under-temperature Protection		/
Balance Current		≤50mA
Balance Condition		≥3.4V
Self-discharge Rate		< 2% per month
IP Protection		IP67

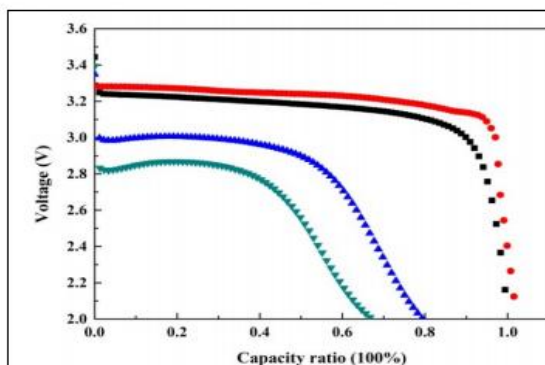
Note: Long-term storage, check the power in time. When the battery power is less than 10%, please charge it to more than 30%(SOC \geq 30%) in time.

Design Drawings

Dimension:L760*W475*H461mm



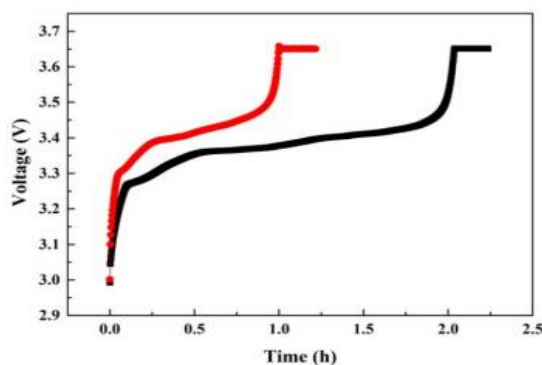
Performance Curve



(■ 25 °C ● 55 °C ▲ 0 °C ▼ -10 °C)

图 1 不同温度下的放电曲线

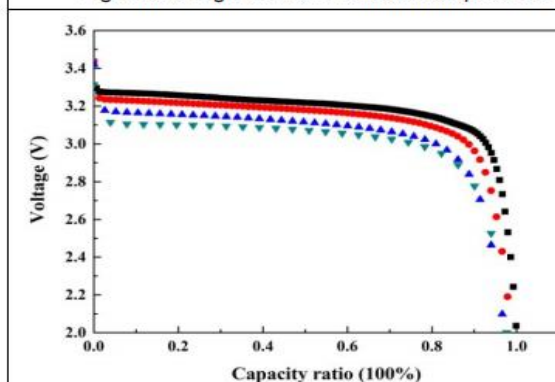
Fig.1 Discharge curves of different temperature



(■ 0.5 C ● 1 C)

图 2 不同倍率下的充电曲线

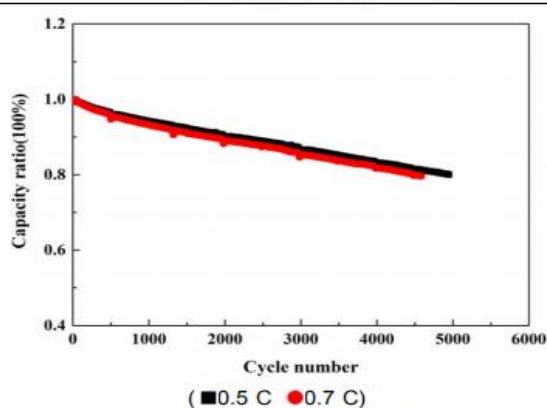
Fig.2 Charge curves of different rate



(■ 0.2 C ● 0.5 C ▲ 0.7 C ▼ 1 C)

图 3 不同倍率下的放电曲线

Fig.3 Discharge curves of different rate



(■ 0.5 C ● 0.7 C)

图 4 不同倍率下的循环性能曲线

Fig.4 Cycling performance curves of different rate

Points for Attention

- Do not short-circuit battery.
- Do not charge lithium battery by lead acid battery charger.
- It is forbidden to put the LCD screen(optional) in the sun. It is easy to damage this parts.
- If in long-term storage, check the power in time at least every 3 months. When the battery power is less than 10%, please charge it over 30%(soc≥30%) at least.
- It is forbidden to immerse the battery in water directly, and forbidden to wash the outside.
- 15~45°C charging temperature is suggested, which is beneficial to get better battery performance.