

Lithium-ion Rechargeable Battery EBIUMXLI-S12-48

Product Manual

Product Name : Li-ion Battery Pack

Product Specification : 46.8V12Ah

Designed	Checked	Approved

1. Preface

This manual describes the type and size, performance, technical characteristics, warning and caution of the ULTRA MAX rechargeable pack. The specification only applies to ULTRA MAX- 46.8V 12Ah pack supplied by Ultra Max batteries.

2. Product and Model

2.1 Product: Lithium-ion Battery Pack

2.2 Model: EBIUMXLI-S12-48 (18650-3.6V-13S5P)

2.3 Picture And Output Wire (In order to prevail in kind)



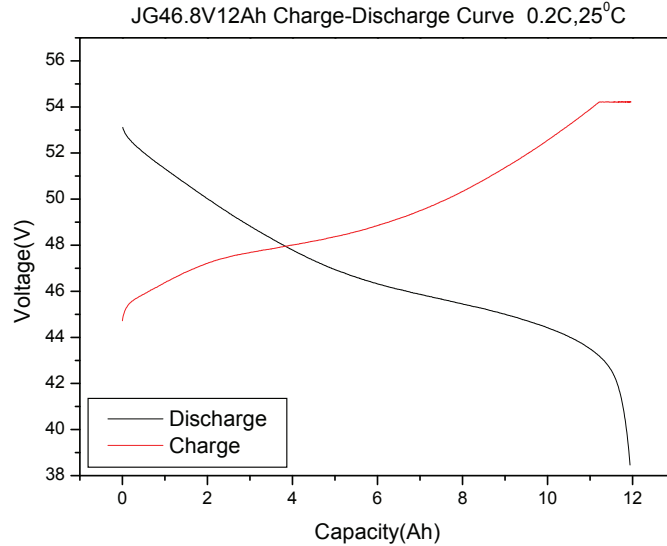
Charging input	XLR Seat
Discharge output	4-Holes Seat

SECTION I / II

3. Battery Pack Specifications

Items		Parameters	
Nominal voltage		46.8V	
Typical capacity		11±0.5Ah(At 0.2C discharge rate)	
Discharge	Normal current	10A	
	Max continuous discharge current	15A (≤ 5min)	
	cut-off voltage	About 39.0V	
Charge	Voltage	54.6±0.2V	
	Current	≤ 2A	
	Charge mode	CC/CV , please use special lithium charger	
Inner resistance	Discharging Inner resistance	≤ 95mΩ	
Operation temperature/ humidity range	Charge	0°C ~ +45°C	
	Discharge	-20°C ~ +60°C	
		When the environment temperature is higher than 45°C , please pay attention to ventilation and heat rejection.	
Humidity	RH≤ 85%, When the environment humidity is higher than 85% , please pay attention to protect		
Storage temperature/ humidity range	Temperature	0°C ~ 40°C (Capacity 80%) Recommended long-term storage temperature is 15~25°C	
	Humidity	RH≤ 50% ,Easily oxidized components note sealed	
Protection function	Over charge protection、 Over discharge protection、 Balanced function		
Shell material	Aluminum alloy		
Weight	4.0±0.1kg		
Size (L*W*H)	(380±3) mm * (111±2) mm * (76±2) mm		
Cycle	Standard charge at 0.2C (A) , rest 0.5~1 h , discharge at 0.2C to cut off voltage , rest 0.5~1h,repeat the above steps until 500 cycles.(capacity retention rate≥ 80%)		

4.Characteristic curve



5. Product Liability

Ultra Max batteries is not responsible for the incident caused by not obeying the Manual.

Before using the battery, you should read the specifications(The manual is divided into two parts), usage instruction and some attentions carefully to learn its application method and areas. If the phenomenon such as error using method or wrong circuit connection, or input power data, working index are inconsistent with the Manual , cause damage to product, load and its accessories, we are not responsible for it.

**Our company have the right to change the content of specification without prior notice ;
The final explanation of specification belongs to our company.**