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文件名: 技术书 Document Tech.Specification	型号 Model: <b>U3</b> 类型 Type: <b>USB charger</b>	文件编号 File No.:PSSU3 版本 Edition: A/0	日期 Date: 2017-5-25
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# PRODUCT SPECIFICATION

Item: USB charger for Li-ion battery

OUR MODEL NO: U3

Date: 2017.5.25

POWER ADVANCE LIMITED

批准 APPROVAL	审核 CHECKED	编制 PREPARED
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## **1.Introduction**

### **Scope**

The Specification is applied to the U3, to stipulate the charger's electrical, appearance, mechanical characteristics and external environment requirements.

## **2.Product Characteristics**

2.1 It's Micro USB DC 5V/1A input. It will charge automatically according to power supply.

2.2 The charging currents (500mA/1000mA) will be automatically selected according to battery size. No need to calculate time to stop charging.

2.3 Suitable for Li-ion 3.7V(26650/22650/26500/18650/17670/18490/17335/16340/14500/10400/18710)

2.4 0V activation function (for battery with protection board)

2.5 Several parameters detection, with over-charging, short circuit, intelligent recognize and battery reverse protect function.

## **3.Input-Output Characteristics**

3.1 Input Characteristics:

3.1.1 DC 5V/1A, 5V/2A

3.2 Output Characteristics:

Intelligent current direction of U3						
Channel Input	Channel 1		Channel 2		Charging current	
	exist battery	battery size exceed 65mm	exist battery	battery size exceed 65mm	current of channel 1	current of channel 2
5V/1A	yes	no	no	no	500mA	0
	yes	yes	no	no	1000mA	0
	no	no	yes	no	0	500mA
	no	no	yes	yes	0	1000mA
	yes	no	yes	no	500mA	500mA
	yes	yes	yes	yes	500mA	500mA
5V/2A	yes	no	no	no	500mA	0
	yes	yes	no	no	1000mA	0
	no	no	yes	no	0	500mA
	no	no	yes	yes	0	1000mA
	yes	no	yes	no	500mA	500mA
	yes	yes	yes	yes	1000mA	1000mA



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About charging current, it has big difference with Input:

1. 5V/1A input:

When we insert 2pcs batteries, it's not enough for power supply, the charging current is 500mA for each slot even battery size is longer than 65mm.

2. 5V/2A input:

It's enough for 2pcs batteries, so the charging current is only relate with battery size. It has no difference with battery quantity.

#### **4. protect function**

4.1 Over-charge protect function. The highest cut off voltage is 4.20±0.05V

4.2 Battery reverse protect function. Red led will flash for alarming.

4.3 Short circuit protect function. Red LED will flash for alarming.

4.4 Bad battery detection: battery won't be charged when its voltage is lower than 0.5V. When battery voltage is among 0.5V and 2.8V, it will be charged with a small 100mA current. If its voltage increase into 2.8V within 2 minutes, it will automatically transfer into normal charging. If its voltage is lower than 2.8V after 2 minutes, it will be disguised bad battery and red led will flash for alarming.

#### **5.LED indication**

5.1 LED indication function:

5.1.1 Indication about connecting power: The charger has two led indicator for working condition. When connected 5V power supply, it will flash for one time between red light and green light.

5.1.2 Indication about charging: After charger finished self-detection, the red led light will be constantly on. After finished charging, green led will be constantly on.

5.1.3 Indication for alarming: When non-rechargeable battery, bad battery inserted or battery reverse, short circuit happens, red led will flash. It's un-normal charging.

#### **6. Environmental Requirements**

For indoor use

Operating Temperature	0℃—35℃	Storage Temperature	0℃—40℃
Operating Humidity	35%—95%	Storage Humidity	45%—85%
Testing Temperature	25℃±10℃	Atmospheric Pressure	70—106Mpa

#### **7.EMC REQUIREMENT:**

Comply with CE-EMC, ROHS standard and requirements

#### **8. Packing and Storage**

8.1 Packing

Color box packaging,together with Micro 5P USB cable: 500±10mm black



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## 8.2 Storage

The charger should be stored in clean, ventilated and dry indoor space and under temperature 0°C-40°C. Keep away from corrosive material, fire and heat source.

## **9.Mechanical requirements**

9.1>Housing: fireproof and ABS housing. Color can be changed according to your requirement

9.2>Surface treatment: matte material

9.3>Dimensions:99.5\*60\*28mm (picture is for reference only, please take the actual product as the standard)

9.4> Weight:53.5g

9.5> Label or print content (For reference)

