

# 全功能電源供電器

REGULATED DC POWER SUPPLY

使用說明書 INSTRUCTION MANUAL

1502USB/1502DD/1502DD+/1502D+

中文(繁)/English

**聲明：**本公司保留改進升級產品的權利，產品規格及設計如有變更，恕不另行告知。  
**Statement:** The company reserves the right to improve and upgrade products, product specifications and design are subject to change without notice.



感謝您購買此款穩壓電源，使用前請仔細閱讀本說明書，閱讀後請妥善保管，以供日後參考。  
Thank you for choosing this type of DC power supply. Please read the User Guide thoroughly before use, and keep it in a safe place for future reference.

## 重要安全提示

當使用電氣設備時，為減少觸電危害，使用前閱讀以下說明，需要遵守以下基本要求：

- 1、8歲以上的兒童和患有身體殘疾或精神疾病或缺乏經驗和祇是的人需要在有監管的情況下使用該設備，並充分認識到該設備的危險性；
- 2、兒童不能玩耍該機器；
- 3、兒童不能在沒有監管的情況下清洗和維護該機器；
- 4、為避免危險，如果電源綫損壞了，必須由廠家、代理商或其他有資質的人員更換；
- 5、不要在機器開着的情況下離開；
- 6、機器內有高壓，非專業人士請勿拆開機器。

## 一、產品概述

本電源是專為手機、BP機維修而設計的，並帶有截止保護的高精度直流穩壓電源。它具有保護速度快，對負載的過流和短路能及時加以保護即截止輸出（待排除過流或短路故障後，從新啓動一下電源開關即可恢復正常工作）。它具有五個不同電壓輸出選擇（1502D+ 和1502USB除外），給不同的手機和BP機維修提供了極為便利的特殊功能。電源設有通用輸出接綫柱，同時也適用於實驗室、學校、生產綫等方面的使用。

## 二、規格參數

型號	1502USB	1502DD	1502DD+	1502D+
輸出電壓	DC 0V~15V/0V~5V	DC 0V~15V	DC 0V~15V	DC 0V~15V/0V~5V
電源電壓	220V/110V ±10% 50/60Hz			
工作溫度	-10℃~40℃	工作濕度	< 90%	
儲存溫度	-20℃~40℃	儲存濕度	< 80%	
電源穩定度	≤0.01% ±2mV			
負載穩定度	≤0.01% ±2mV (1mA < 1A)			
波紋噪音	≤0.5mVrms (5Hz~1MHz) Iomax > 1A			

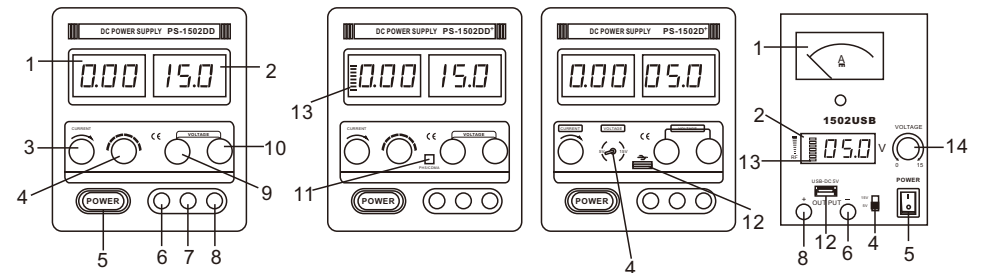
溫度系數	≤300PPM/℃			
輸出電流	0~2A	0~2A	0~2A	0~2A
過載保護電流	2A	0.6~2A	0.6~2A	0.6~2A

## 三、性能對照表

性能	型號	1502USB	1502DD	1502DD+	1502D+
電壓顯示精度		0.1V	0.1V	0.1V	0.1V
電流顯示精度		10mA	10mA	10mA	10mA
輸出電壓選擇		DC 0V~15V/0V~5V	DC 0V~15V	DC 0V~15V	DC 0V~15V/0V~5V
手機信號強弱指示		有	無	有	無
刷機供電功能		有	無	無	無

## 四、使用說明

### 面板介紹

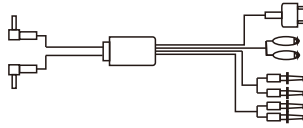


- 1、電流指示
- 2、電壓指示
- 3、輸出電流調節
- 4、電壓檔位調節
- 5、電源開關

- 6、輸出負極
- 7、接地端
- 8、輸出正極
- 9、電壓細調旋鈕
- 10、電壓粗調旋鈕

- 11、PHS/CDMA切換按鈕
- 12、USB接口
- 13、手機射頻信號強弱指示
- 14、電壓調節旋鈕

## 專用輸出連接綫



## 適合維修

適合維修NOKIA、MOTOROLA、LG、Lenovo、Sony Ericsson等各種品牌手機以及BP機，使用時根據手機電壓設置輸出電壓，并根據手機額定電流大小調節過載保護啓動電流，切勿調節過高，以免電流過大而燒壞手機。

## 五、警告

- 1、設置好輸出電壓電路後才能連接手機，連接狀態下不要調節電壓電流及轉換輸出電壓，以免燒壞手機。
- 2、電源不允許長時間處于滿負荷工作狀態，請將使用率控制在60%以內，否則將有可能造成人爲的早期失效。訂貨時應根據實際工作電流自行留出餘量。

## 六、刷機供電USB

1502USB 電源帶有手機刷機供電功能，在電源的後面板上有個方形USB口，前面板有個扁平形USB口，當給手機刷機時，分別用USB數據綫將後面板上的方形USB口和上位機（電腦等）、前面板扁平形USB口和手機連接，實現刷機功能。此時電源提供給手機刷機時的供電和數據傳輸功能。

## 七、維護

- 1、保險絲替換：  
如果保險絲燒斷，LED顯示熄滅，本電源停止工作，必須在找到保險絲燒斷的原因後，方可按原型號替換保險。
- 2、請勿在環境溫度大于40℃地方使用，散熱器位于儀器後部，使用時機箱後面應留有足夠的空間，以利于散熱。
- 3、本電源在出廠前已經精確調整過，不要隨意調整機內電路參數，以免影響精度。

## IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions are required to always be followed, including the following:

Read all instructions before using DANGER - To reduce the risk of electric shock:

1. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
2. Children shall not play with the appliance.
3. Cleaning and user maintenance shall not be made by children without supervision.
4. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
5. Do not leave the appliance unattended when it is switched on.
6. High voltage in machine, amateurs do not dismantle machine.

## I. Summary

The power supply is designed for mobile phones, BP machine maintenance. And with high-precision DC power supply protection. Protection of speed, the load over - current and short circuit protection that is close the output (to be excluded from over-current or short circuit fault, the power switch to starting work again. It has five different voltage output options(1502D+ and 1502USB excluded), special features to facilitate maintenance to different mobile phones and a BP machine. Has a universal power supply output terminal, as well as for laboratories /schools/ and other aspects of the production line use.

## II. Parameter specification

Model	1502USB	1502DD	1502DD+	1502D+
Output Power	DC 0V~15V/0V~5V	DC 0V~15V	DC 0V~15V	DC 0V~15V/0V~5V
Supply Voltage	220V/110V ± 10% 50/60Hz			
Operating Temperature	-10℃~40℃	Relative Humidity		< 90%
Storage Temperature	-20℃~40℃	Storage humidity		< 80%
Power stability	≤0.01% ± 2mV			

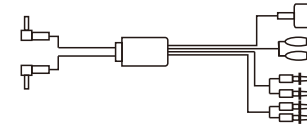
Load Rated degrees	$\leq 0.01\% \pm 2mV (1mA < 1A)$			
Ripple noise	$\leq 0.5mVrms (5Hz-1MHz)$ lomag greater than 1A			
Temperature Coefficient	$\leq 300PPM/^{\circ}C$			
Output Current	0~2A	0~2A	0~2A	0~2A
Overload current	2A	0.6~2A	0.6~2A	0.6~2A

- |                          |                                      |
|--------------------------|--------------------------------------|
| 1. Current indicator     | 8. Output positive                   |
| 2. Voltage indicator     | 9. Voltage fine tuning knob          |
| 3. Output current adjust | 10. Voltage coarse tuning knob       |
| 4. Voltage gears adjust  | 11. PHS/CDMA switch knob             |
| 5. Power switch          | 12. USB interface                    |
| 6. Output negative       | 13. Mobile phone RF signal indicator |
| 7. Grounding terminal    | 14. Voltage adjust knob              |

### III. Performance Comparison Table

Function \ Modle	1502USB	1502DD	1502DD+	1502D+
Voltage display precision	0.1V	0.1V	0.1V	0.1V
Current display precision	10mA	10mA	10mA	10mA
Outpunt voltage choice	DC 0V~15V/0V~5V	DC 0V~15V	DC 0V~15V	DC 0V~15V/0V~5V
Mobile singal shows	Yes	No	Yes	No
PSP power supply function	Yes	No	No	No

#### Dedicated output connections

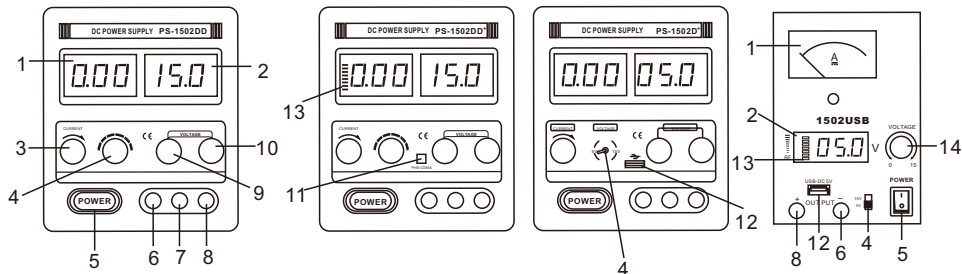


#### Use in

For maintenance of NOKIA/ MOTOROLA/ LG/ Lenovo / Sony Ericsson/ Other brand mobile phones, and BP machine. According to mobile voltage setting the voltage and setting the overload protect current. Don't adjust to high to prevent too much current and burn the phone.

### IV. Instruction manual

#### Front panel introduce



### V. Warning

1. Must set the output voltage and current properly before connect the mobile phone, do not adjust the voltage, current and convert the output pressure, so as not to burn the mobile phone.
2. Power supply are not allow at full load state for long time. Control your utilization rate of less than 60%, ro they may cause human early failure. When place order, you should be based on the actual operating current includes an allowance.

### VI. PSP power supply function

1502USB power supply function with mobile phone PSP power supply function, a square USB port on the back panel, and front panel with a flat-shaped USB port of

the power supply, please separately use USB data cable to connect the rear panel square USB port, the host machine (computer), front panel flat-shaped USB port and the mobile phone, to complete PSP function. This time power supply is provided to the mobile phone PSP power supply and data transfer functions.


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## VII. Maintenance

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1. Fuse replace:  
If the fuse was burn out and LED not shows, that DC power supply will stop working. Must be found out the fuse burn out reason, and then replace the fuse.
2. Don't working on temperature over 40°C environment. Radiator in the rear equipment, use back of the chassis should sufficient space to facilitate cooling.
3. The DC power supply precisely adjusted at the factory. To avoid effect the machine precision, please don't adjust the machine circuit parameter.

## 產品合格證 Product certification

產品型號名稱(Model NO.)	
產品編號(Product ID)	
檢驗(Examine)	經檢驗產品符合技術標準 Upon examination products meet technical standards 
售貨日期(Sales Date)	
出廠日期(Date of manufacture)	

## 產品保修卡 Warranty Card

感謝您購買本產品，在使用本產品前請您認真閱讀以下條款：

**Thank you for choosing this type of products, please read the following terms before using:**

- 消費者由購買日起7天內，在正常操作情況下（非人為損壞），全新拆包，未經拆修，可享受包換服務。  
From purchasing date within 7 days, under normal use(Artificial damage), new package, not be disassemble and repaired ,enjoy replacement service.
- 消費者由購買日起1年內，在正常操作情況下，出現品質故障，未經拆修可享受保修服務。  
From purchasing date within one year, under normal use, if there are quality problem, not be disassemble and repaired ,enjoy free repair service.
- 在超過保修期終生提供保修服務，免收人工費，祇收取零件費。  
For more than warranty, we provide a lifetime warranty service, free of labor costs, charge only spare parts costs.
- 保修期內若未能出示保修卡，本公司不予免費服務。  
Failure to present warranty card during warranty period, the company will not be a free service.
- 用戶需保修商品，請先與原銷售單位聯系。  
Users need warranty service, please contact your original sales unit.
- 用戶保修時需提供保修卡和購買發票或有本公司印章的收據憑證。  
When users need warranty service, please provide warranty card and purchase invoice, or receipt of the certificate of the company seal.
- 保修不包括運輸費用和不提供上門服務。  
Warranty does not include transportation costs and provide on-site service.

## 維修記錄 Maintenance records

序號 NO.	送修日期 Date for repair	故障原因 Cause	修好日期 Fix date	維修員 Repairer