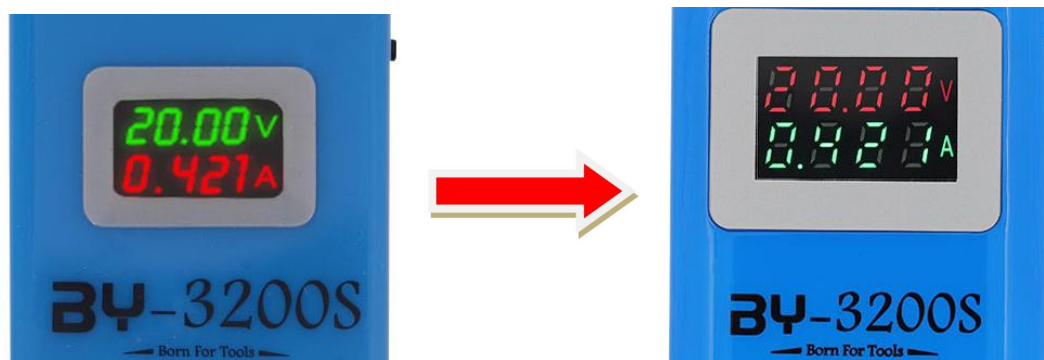


## BY-3200S **Upgraded Version** Applicable Model and Function Introduction

### 一. **Function introduction:**

1. BY-3200S is a MacBook logic board boot power cable, used for 2008-2023 MacBook
2. BY-3200S **Upgraded Version** further improves and adds practical functions on the basis of BY-3200S
3. The digital display area is enlarged to allow maintenance enthusiasts to more clearly see the voltage and current display of the motherboard's working status. (When the output terminal is connected to Type-C line, T line or L line, the display tube will display the working voltage and current of the motherboard)



4. Type\_C input port, and the input port can be directly input by 87W-140W Type\_C charger, and instead of 220V DC power supply (Convenient for maintenance personnel to carry and operate)



5. The output port Type\_C interface, and the output port can be connected to the Type\_C output line ,and the application range is wider and more convenient . (Can be connected to Magsafe 3 adapter cable, suitable for 2021-2023 MacBook)



6. The LCD ON/OFF switch is used to control the LCD digital tube display and power input (when the switch is pressed once, the digital tube is turned off or on; when the switch is often pressed for 3S-5S, the power input is turned off, and when it is necessary to turn on the power input again, You need to press the switch 3S-5S)



7. The LCD digital tube is off by default. When the output port is connected to the main board, BY-3200S will automatically sense and turn on the digital tube display
8. Support all series of MacBook logic board without battery connected, the single board boots into the system (solve the problem that the BATLOW# signal is low without the battery, resulting in the problem of not booting)

### 二, **Includes three output power cables**



L-connector for 2008-2011 MacBooks, including 11", 13.3", 15.4" and 17" Macbook Air and Macbook Pro.

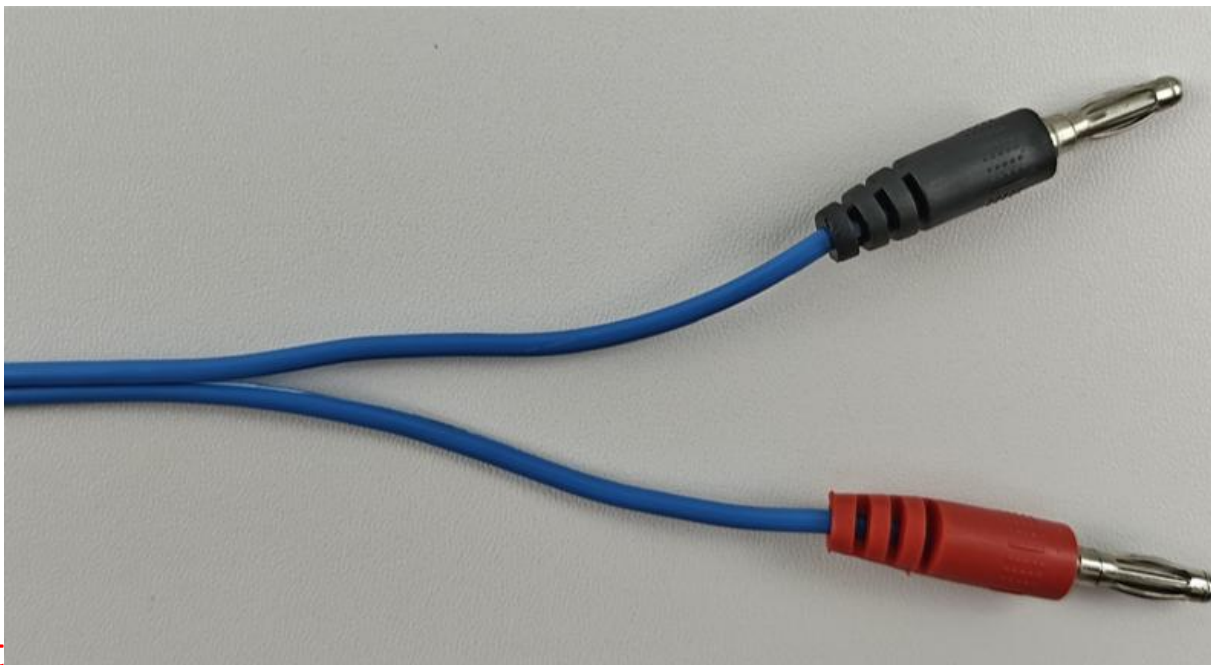


T-connector for 2012-2015 MacBooks , including 11", 13.3" and 15.4" Macbook Air and Macbook Pro



TYPE\_C connector is suitable for 12", 13.3", 15.4" and 16" Macbook, Macbook Air and Macbook Pro in 2015-2022 (and supports fast charging of tablets and mobile phones with TYPE\_C interface, check the current through the power meter to determine the fault).

### 三, Introduction to Power



Input

DC power input power cable, support 20A current

1. The power cord input port of BY-3200S is directly plugged into the DC power supply (the setting voltage of the DC power supply is kept between 20V and 21V).
2. When charging the mobile phone or tablet, the output voltage of the DC power supply can also be kept at 20V (BY-3200S will adjust to the corresponding voltage through the CC line inside).
3. The output voltage of the DC power supply is set to 20V-21V, which can be used for 2008-2022 MacBook charging and single-board booting.

Type\_C connect input, Support 87W-140W USB-C charger input

#### 四， Output power, voltage and current supported by BY-3200S

1. 96W charger with TYPE\_C port, output voltage and current: 20.5V—4.7A, 15V—3A, 9V—3A, 5.2V—3A
2. 87W charger with TYPE\_C port, output voltage and current: 20.2V—4.3A, 9V—3A, 5.2V—2.4V
3. 61W charger with TYPE\_C port, output voltage and current: 20.3V—3A, 9V—3A, 5.2V—2.4V
4. 30W charger with TYPE\_C port, output voltage and current: 20V—1.5V, 15V—2A, 9V—3A, 5V—3A
5. L connector 45W charger, output voltage and current: 14.5V—3.1A
6. L connector 60W charger, output voltage and current: 16.5V—3.65A
7. L connector 85W charger, output voltage and current: 18.5V—4.6A
8. T-connector 45W charger, output voltage and current: 14.85V—3.05A
9. T-connector 60W charger, output voltage and current: 16.5V—3.65A
10. T-connector 85W charger, output voltage and current: 20V—4.25A