

USB-C PD2.0 3.0 to DC Deceptive Fast Charging Trigger Polling Detector

High power support up to 100W, compatibility.

The version with USB adopts a large current PAL socket, with low internal resistance.

Large volume ceramic capacitor filtering, TVS surge protection and anti-reverse connection, Japanese ALPS push-button switch, emphasizing stability.

With USB welding position and 5.08 screw connection post welding positions, it is convenient for making Type-C to DC adapter cables.

Small volume 15mm wide * 30mm long, after soldering the DC line, the heat shrink tube can be shrunk and then the PD portable power supply can be used to charge your laptop.

Function Introduction:

This product can trigger any voltage that complies with the PD2.0 standard. The voltage range is 3-20V, and the current is 0-. After triggering, users can supply the load for testing or use by connecting through the USB socket or by themselves soldering the cable.

User Instructions:

After powering on, ZY12PDS will default to PD mode. A stable red color displayed by the seven-color light indicates that the default 5V has been successfully applied. If the adapter supports more voltage levels, you can click and gently touch the switch to switch the output voltage. The seven-color light will then illuminate with a stable (red, yellow, green, cyan, blue, purple, white) display showing the corresponding 1-7 voltage current group actually applied by the adapter. If the adapter does not support PD mode, connection timeout occurs, or the application does not respond, the seven-color light will flash red.

Mode Settings:

When the device is powered on, the colorful lights will flash once to indicate the current working mode. Press and hold the button during power-on. After the colorful lights flash rapidly, release the button to enter the settings. Press briefly to switch the color of the colorful lights, and press for a long time to turn off the lights and save

the settings.

Color of the seven-color lights and their corresponding functions:

Red: Press the button to change the voltage

Yellow: Request 8-10V

Green: Request 11-13V

Blue: Request 14-16V

Purple: Request high voltage

White: Poll all supported voltages

High voltage application logic: If the broadcast voltage is 5, 9, 20, 20, 15V, then apply 20V. For application, broadcast the higher voltage value. If there are multiple same high values, apply the next one.

Fixed voltage application logic: If the set voltage is 14-16V, and the broadcast voltage is 5, 14, 16, 15, 12V, then apply 15V. For application, apply the voltage within the range in the broadcast.

Caution: This product is intended for professional use only. After the PD occurs, it is strictly prohibited to connect to equipment that cannot withstand the high voltage. Our store assumes no responsibility for any losses.

ZY12PDG Industrial Grade Manual:

The industrial-grade design ensures a withstand voltage of $\pm 20V$ between any two terminals, and it prevents reverse connection of the input voltage.

It effectively addresses issues such as VBUS short circuit to CC causing burnout during the testing process.

It is highly suitable for testing fixtures to directly conduct flying-pin tests on bare power modules without the need for assembly before testing.

Or, you can create DIY fast charging spoof cables with plugs, which do not have hardware switches and are less likely to be accidentally touched and change the voltage.

If you use -EMARK cables for DIY, it supports high power up to 100W and has compatibility.

The pitch is 2.54mm, making it convenient to insert the pins into other motherboards for use.

The TRIG pin being connected to ground is equivalent to pressing a button, and it can be isolated for triggering using an optocoupler or relay.

If CC1 or CC2 is connected to the male connector, only one of them needs to be connected.

The remaining operations are exactly the same as the regular version.

ZYPDS Ultra Mini Single Function Instruction Manual:

Type-C female socket input is compatible, fully supporting traditional female sockets or direct wired PD adapters.



