



## Features

- Robust Anodized Aluminum and ABS construction
- USB Full Speed device for data communication
- Secure Firmware update via USB FS
- USB-C Power Delivery Negotiation
- Configurable output voltage 5V to 48V
  - iOS, MacOS, Android and Web Apps
- Output current up to 5A
- RGB LED indicator
- Power Good Monitoring
- Power Delivery Object Scanning
- X Connector Output Interface
  - Supports over 14 different adapter cable options
- 3 levels of Lockable configuration
  - Soft Lock with Warning
  - Authorized Lock (requires token)
  - Permanent Lock
- Complete support for all Power Delivery modes
  - SPR Fixed Voltages
  - SPR PPS
  - SPR AVS
  - EPR Fixed Voltages
  - EPR AVS

## Applications

- DC Power Supply Replacement
- Voltage Drop Compensation
- Enable Battery Power
- Industrial Power Supply
- IT Equipment Power
- LED Lighting
- 42V eBike Battery Charging
- Personal Electronics
- Medical Devices

## Description

VFLEX is a versatile solution for USB-C Power delivery sink negotiation. It can be configured to request any output voltage and current from a USB-C Power Delivery supply.

VFLEX is configured by USB from a PC or Mobile phone using a patent pending technique that is permitted by all operating systems. This includes Apple iOS without MFi certification. The configuration parameters are stored in on device non-volatile memory.

When attached to a Power Delivery Source, VFLEX will then read configuration from memory and attempt to negotiate the configured output voltage and current. Diagnostics of this negotiation are communicated by the RGB LED and can also be retrieved in verbose format via USB.

The X Connector output is capable of 5A output with minimal series resistance. It can be adapted to any output connector using cables supplied by Werewolf.

## Specifications

	Min	Max	Units
Input Voltage	3.4	50	V
Maximum Pass Through Current	0	5.2	A
Ambient Operating Temperature	-40	60	°C
USB-C Rated Cycles	-	5,000	Cycles
X Connector Rated Cycles	-	100	Cycles
Standard Power Range (SPR) Fixed PDO Support	5, 9, 12, 15, 20		V
Programable Power Supply (PPS) Support	3.3	20	V
Standard Power Range Adjustable Voltage Supply (SPR AVS)	3.3	20	V
Extended Power Range (EPR) Fixed PDO Support	28, 36, 48		V
Extended Power Range Adjustable Voltage Supply (EPR AVS)	15	48	V

## Operation

Detailed VFLEX user manual is available at <https://werewolf.us/vflex/user-manual>. Getting started is simple:

- 1) Access the app from <https://vflex.app>
- 2) Use a USB-C Cable to connect VFLEX to Phone/PC
- 3) Enter desired output voltage using the VFLEX App
  - Optionally enter data about your Device and Power source. When you do this, VFLEX App can help to confirm that the power source is compatible with the desired voltage.
- 4) Unplug from phone and plug into Power Source, confirm voltage with Green LED

## Troubleshooting & Support

An updated guide is available at <https://werewolf.us/vflex/troubleshooting>. This guide also contains information about each LED state. For further support you may email [support@werewolf.us](mailto:support@werewolf.us) or [contact us](#).

# Mechanical Drawing

