ELVO - USB v1.0

The ELVO-USB is a USB charging port

- Provides up to 2.4 Amps at 5.1 Volts for charging mobile phones, tablets, sports video cameras and similar
- Easy plug in DIY installation and integration to any ELVO installation or other 12 volt solar installation
- Automatically negotiates with Smartphones for best charging rate based on phone type and available energy
- Red indicator window glows when USB charging is underway

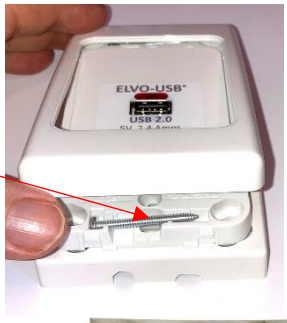
The ELVO-USB is a wall mounted USB charging port with smart interfacing. It will negotiate with Smartphones or similar for maximum safe charging rate for the available energy.

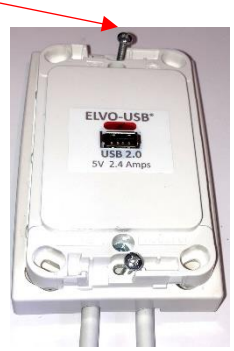
This ability to dynamically allocate charging energy is a special feature of the ELVO-USB and why it harmoniously integrates with the ELVO system. This also means it can operate off a solar panel only or any 12 volt nominal supply (up to 22Vdc max), it even protects over discharge of any 12 volt battery connected to it by reducing to extreme low power sleep mode* when the battery voltage becomes critically low

Once charging is completed the ELVO-USB will transition to low power mode for minimal power draw, the red indicator, the window with the charging symbol ϟ, will turn off. Once every 15 - 20 seconds or so the unit will try again to see if the unit wants more charge, if not, it will turn off again. As a result you may see some periodic flashing of the indicator, this is normal.

Installation:

1. Remove the cover
2. Remove the mounting screws
3. Turn over and plug in 3 way connector from the ELVO-batt. Plug the USB adaptor cable (supplied) in to the 2 way connector, other end, the 3 way connector, plug into ELVO-Switch or ELVO-PIR.
4. Place the ELVO-USB against the wall, making sure the cables pass through the gaps provided for surface mount
5. Screw ELVO-USB to the wall
6. Replace the cover
7. Installation is complete





Specifications:

Input Voltage:	11.3 – 22 Volts DC
Battery Save (Sleep) Voltage:	Off at 11.2 Volts, resume operation at 11.8 Volts
Output:	5.2V @ 2.4A max
Operating Current:	2 mA + USB draw
Protection:	1500W @ 10/1000uS transient dissipation
Weight:	109 gms
Ambient temperature	50°C max

* Standby power draw drops to an extremely low 100 microamps (at least 250 times less than most charging ports). This is great for battery preservation