



WHADDA LM2577 DC-DC Voltage Step Up Module User Manual

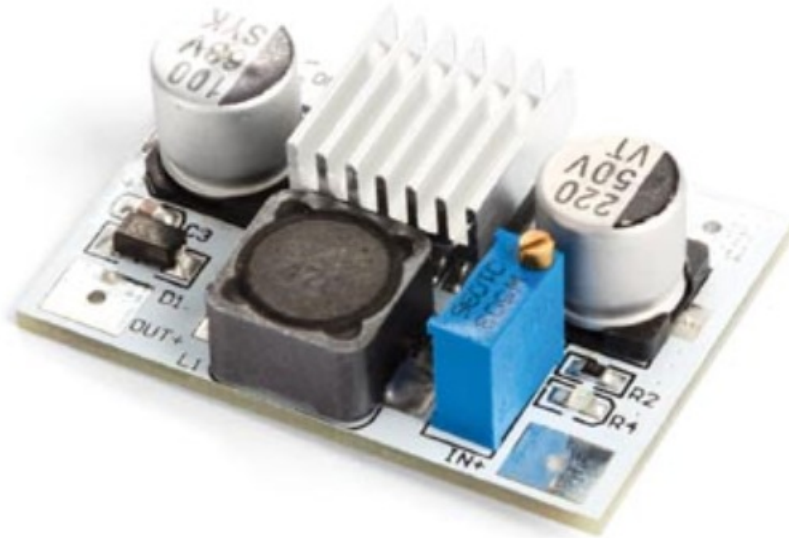
[Home](#) » [WHADDA](#) » WHADDA LM2577 DC-DC Voltage Step Up Module User Manual 

Contents

- [1 WHADDA LM2577 DC-DC Voltage Step Up Module](#)
- [2 Product Information](#)
- [3 Specifications](#)
- [4 Product Usage Instructions](#)
- [5 Introduction](#)
- [6 Safety Instructions](#)
- [7 General Guidelines](#)
- [8 Product Overview](#)
- [9 Product Specifications](#)
- [10 Pin Layout](#)
- [11 Documents / Resources](#)
 - [11.1 References](#)
- [12 Related Posts](#)



WHADDA LM2577 DC-DC Voltage Step Up Module



Product Information

The LM2577 DC-DC voltage step-up (boost) module WPM402 is a device that converts a microcontroller's power supply, battery, solar cell, etc. into a higher, adjustable voltage. It has an input voltage range of 3.5-35 V and an output voltage range of 5-56V. The output voltage can be adjusted via a multi-turn potentiometer. This module is designed to be used for indoor applications only.

Specifications

- Input voltage range: 3.5-35 V
- Output voltage range: 5-56V
- Pin layout: IN+ (positive input), IN- (negative input), OUT+ (positive output), OUT- (negative output)

Safety Instructions

Before using this appliance, read and understand the user manual and all safety signs. If the device was damaged during transit, do not install or use it and contact your dealer.

Product Usage Instructions

1. Ensure that the device is for indoor use only.
2. Connect the positive input (IN+) to the power source (microcontroller's power supply, battery, solar cell, etc.) and the negative input (IN-) to the ground.
3. Connect the load to the positive output (OUT+) and negative output (OUT-).
4. Use a multimeter to measure the input voltage and ensure that it falls within the input voltage range of 3.5-35 V.
5. Turn on the power source and adjust the output voltage via the multi-turn potentiometer. Ensure that the output voltage is higher than the input voltage to avoid damaging the module.

Introduction

To all residents of the European Union

Important environmental information about this product

This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules.

If in doubt, contact your local waste disposal authorities.

Thank you for choosing Whadda! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, do not install or use it and contact your dealer.

Safety Instructions

- Read and understand this manual and all safety signs before using this appliance.
- For indoor use only.
- This device 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 the use of the device in a safe way and understand the hazards involved. Children shall not play with the device. Cleaning and user maintenance shall not be made by children without supervision.

General Guidelines

- Refer to the Velleman® Service and Quality Warranty on the last pages of this manual.
- All modifications of the device are forbidden for safety reasons. Damage caused by user modifications to the device is not covered by the warranty.
- Only use the device for its intended purpose. Using the device in an unauthorized way will void the warranty.
- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.
- Nor Velleman Group nv nor its dealers can be held responsible for any damage (extraordinary, incidental or indirect) – of any nature (financial, physical...) arising from the possession, use or failure of this product.
- Keep this manual for future reference.

What is Arduino®

Arduino® is an open-source prototyping platform based on easy-to-use hardware and software. Arduino® boards are able to read inputs – light-on sensor, a finger on a button or a Twitter message – and turn it into an output – activating of a motor, turning on an LED, publishing something online. You can tell your board what to do by sending a set of instructions to the microcontroller on the board. To do so, you use the Arduino programming language (based on Wiring) and the Arduino® software IDE (based on Processing). Additional shields/modules/components are required for reading a twitter message or publishing online. Surf to www.arduino.cc for more information.

Product Overview

This module converts a microcontroller's power supply, battery, solar cell, etc. into a higher, adjustable voltage. This DC-to-DC voltage adjustable module has an input voltage range of 3.5-35 V and an output voltage range of 5-56V. The output is adjusted via a multi-turn potentiometer. Please ensure that the output voltage is higher than the input voltage, so as not to damage the module.

Product Specifications

- input voltage: 3.5-35 VDC
- output voltage: 5-40 VDC (adjustable)
- max. input current: 3 A
- continuous input current: 2 A
- chip: LM2577
- dimensions: 43 x 30 x 12 mm

Pin Layout

IN+	positive input
IN-	negative input
OUT+	positive output
OUT-	negative output

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Documents / Resources

	<p>WHADDA LM2577 DC-DC Voltage Step Up Module [pdf] User Manual</p> <p>WPM402, LM2577, LM2577 DC-DC Voltage Step Up Module, DC-DC Voltage Step Up Module, Voltage Step Up Module, Step Up Module</p>
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References

- [Whadda - Exciting Electronics](#)
- [Arduino - Home](#)
- [Arduino - Home](#)