



V-REGULATOR

Dear PowerBox customer,

The V-Regulator is a compact, high-performance voltage regulator which is ideal for any model where standard servos are to be operated in conjunction with a Lithium battery. In this way fairly small to medium-sized fixed-wing model aircraft and helicopters can be equipped, or re-equipped, with modern battery technology. The signal wire is looped through from the input to the output, which means that even a single 6V servo can be operated in a model fitted with a high-voltage system. A further application is for those electronic ignition systems whose maximum power supply voltage is limited. The regulated output voltage ensures that servos give a constant performance. The unit effectively filters out servo feedback currents.

1. INSTALLATION, CONNECTIONS

Install the V-Regulator in the model in a position where the heat-sink is not covered. The better the cooling, the higher the continuous current that the V-Regulator can deliver. Connect the battery in accordance with the markings on the aluminium heat-sink. Connect the output to the appropriate receiver socket, or the input socket of the ignition unit.

2. SWITCH

If you wish to use a switch, then it must be installed between the battery and the V-Regulator, otherwise the V-Regulator would slowly discharge the battery.

3. PERFORMANCE

The V-Regulator is fitted with a generously proportioned heat-sink which is machined from solid. As a result it is suitable for 5 - 6 standard servos or 4 - 5 digital servos. In model gliders fitted with small servos (8 - 13mm case width) you can connect up to 8 servos. The peak output of the V-Regulator (approx. 10 seconds) is up to 20A, while the continuous output varies according to cooling efficiency and input voltage.



WARNING

Connecting the battery with reversed polarity will destroy the integral regulator!

In order to minimise losses, the unit does not feature reverse polarity protection.

DIMENSIONS



GUARANTEE CONDITIONS

We insist on the highest quality standards at the development and production stages. This unit is guaranteed "Made in Germany"!

That is why we are able to guarantee the voltage regulator for a period of 24 months from date of purchase. The guarantee covers proven material faults which arise during the guarantee period, which will be corrected by us at no charge to you. As a precautionary measure we wish to point out that we reserve the right to replace the unit if a repair is not possible for economic reasons. Any repairs which we carry out for you in our Service Department do not extend the original guarantee period.

The guarantee does not apply if the unit is used incorrectly, e.g. as a result of reversed polarity, excessive vibration, excessive voltage, damp, fuel or short-circuit. The same applies to defects caused by particularly harsh wear and tear. We accept no liability for transport damage or the loss of your shipment. If you wish to make a claim under guarantee, send the unit, together with proof of purchase and a description of the fault, to us at the following address:

PowerBox-Systems GmbH
Dr.-Friedrich-Drechsler-Str. 35
86609 Donauwörth
Germany



SERVICE NOTE

We make every effort to provide a good service to our customers, and have established a Support Forum which covers all queries relating to our products. Please use the Support Forum **before** you telephone us. You can find the forum at the following address:
www.forum.powerbox-systems.com

SPECIFICATION

Voltage range:	4.0V-9.0V
Output voltage Order No. 5515:	5.3V
Output voltage Order No. 5516:	6.0V
Continuous current, according to input voltage (U_{in}) and cooling:	2.0-3.0A
Max. current (< 10s):	20A
Drop-out voltage:	0.10V
Temperature range:	-30°C to +75°C
Weight:	10,0 g

LIABILITY EXCLUSION

We are not in a position to ensure that you observe our instructions regarding installation of the **V-Regulator**, fulfil the recommended conditions when using the unit, or maintain the entire radio control system competently.

For this reason we deny liability for loss, damage or costs which arise due to the use or operation of the **V-Regulator**, or which are connected with such use in any way. Regardless of the legal arguments employed,

our obligation to pay damages is limited to the invoice total of our products which were involved in the event, insofar as this is deemed legally permissible.

We wish you every success using your new PowerBox **V-Regulator!**



Donauwörth, September 2023