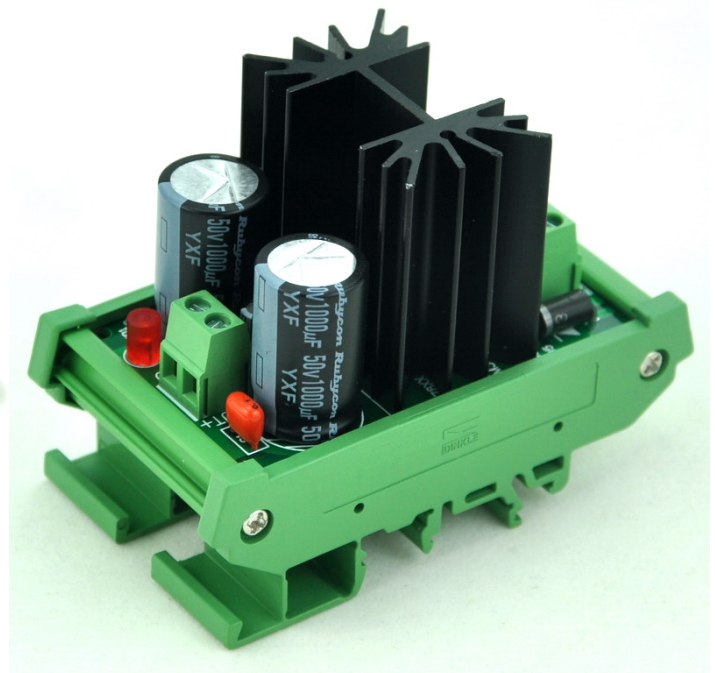
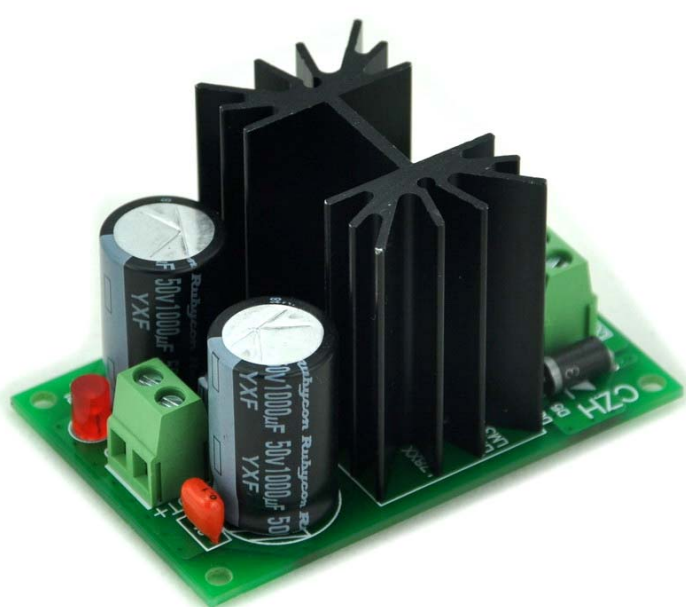


CZH-LABS

Positive Voltage Regulator Module

Model: D-1000 series



Positive Voltage Regulator Module

Based on 7800 series or LM317 voltage regulator IC design

Version	Input DC	Input AC	Output Vol. DC	Max. Output Current	Note
D1000/5V	8 to 35V	6.7 to 25V	5 +/-0.2V	1 Amp	Output voltage non-adjustable.
D1000/6V	9 to 35V	7.5 to 25V	6 +/-0.25V	1 Amp	Output voltage non-adjustable.
D1000/8V	11 to 35V	8.9 to 25V	8 +/-0.3V	1 Amp	Output voltage non-adjustable.
D1000/9V	12 to 35V	9.6 to 25V	9 +/-0.35V	1 Amp	Output voltage non-adjustable.
D1000/10V	13V to 35V	10.3 to 25V	10 +/-0.4V	1 Amp	Output voltage non-adjustable.
D1000/12V	15 to 35V	11.8 to 25V	12 +/-0.5V	1 Amp	Output voltage non-adjustable.
D1000/15V	18 to 35V	13.9 to 25V	15 +/-0.6V	1 Amp	Output voltage non-adjustable.
D1000/18V	21 to 35V	16.0 to 25V	18 +/-0.7V	1 Amp	Output voltage non-adjustable.
D1000/24V	27 to 40V	20.3 to 28.5V	24 +/-1V	1 Amp	Output voltage non-adjustable.
D1000/ADJ	4 to 43V	4.5 to 30V	1.25 to 37V	1.5 Amp	Output voltage adjustable

Note:

1, The item is analog voltage regulator, no step-up function, input to output dropout voltage must $\geq 3\text{VDC}$.

2, Max. output current: $10 / (\text{VinDC} - \text{VoutDC})$ Amp, up to 1 Amp (D1000/ADJ is 1.5 Amp).

3, For AC input mode, please according the following formula to calculate DC.

$$\text{VinDC} = (\text{VinAC} \times 1.414) - 1.4$$

2, For AC input mode, transformer no-load voltage must be less than the maximum allowable voltage, for example: D1000/12V, the maximum AC input 25V.

PCB size: L47.35mm x W72.5mm / L1.86" x W2.85"

Module size:

(without DIN rail carrier): L47.35mm x W72.5mm x H43mm / L1.86" x W2.85" x H1.69"

(with DIN rail carrier): L50mm x W87mm x H66mm / L1.97" x W3.43" x H2.60"

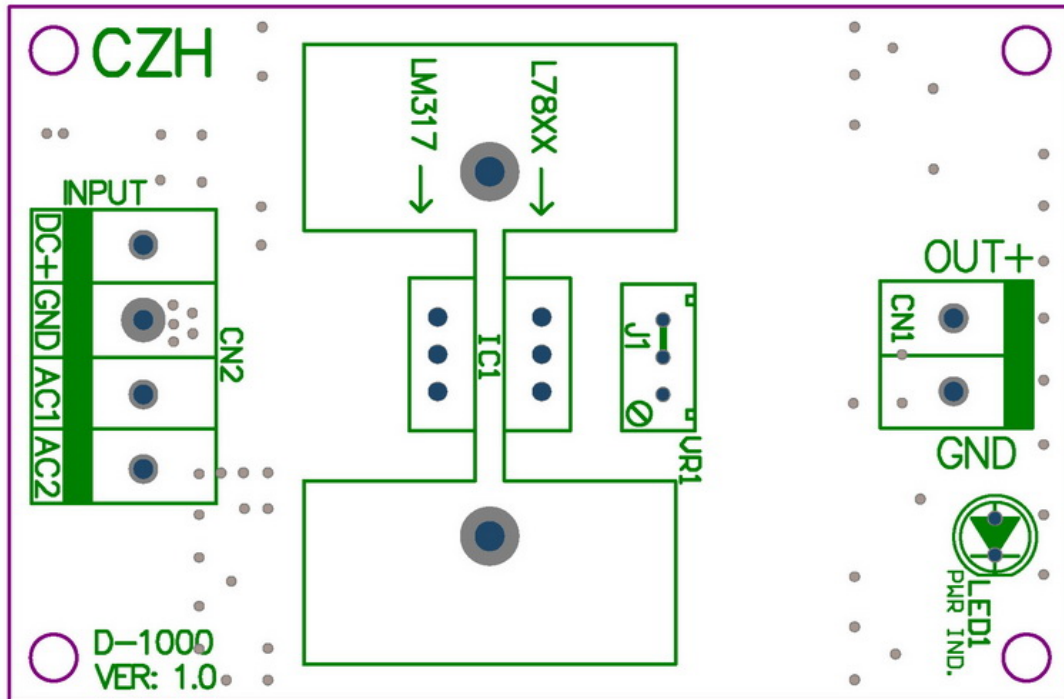
This is a very typical regulator circuit, other electrical specifications please read these IC datasheet:

7800 series <http://www.fairchildsemi.com/ds/LM/LM7805.pdf>

LM317 <http://pdf1.alldatasheet.com/datasheet-pdf/view/22749/STMICROELECTRONICS/LM317.html>

Any questions feel free to contact me:: Jianglily2005@gmail.com

Wring Diagram and Adjust:



Input Terminal Block:

DC+ : DC voltage input positive.

GND: DC input ground (0V).

AC1: AC input 1.

AC2: AC input 2.

Output Terminal Block:

OUT+: Regulated DC voltage output positive.

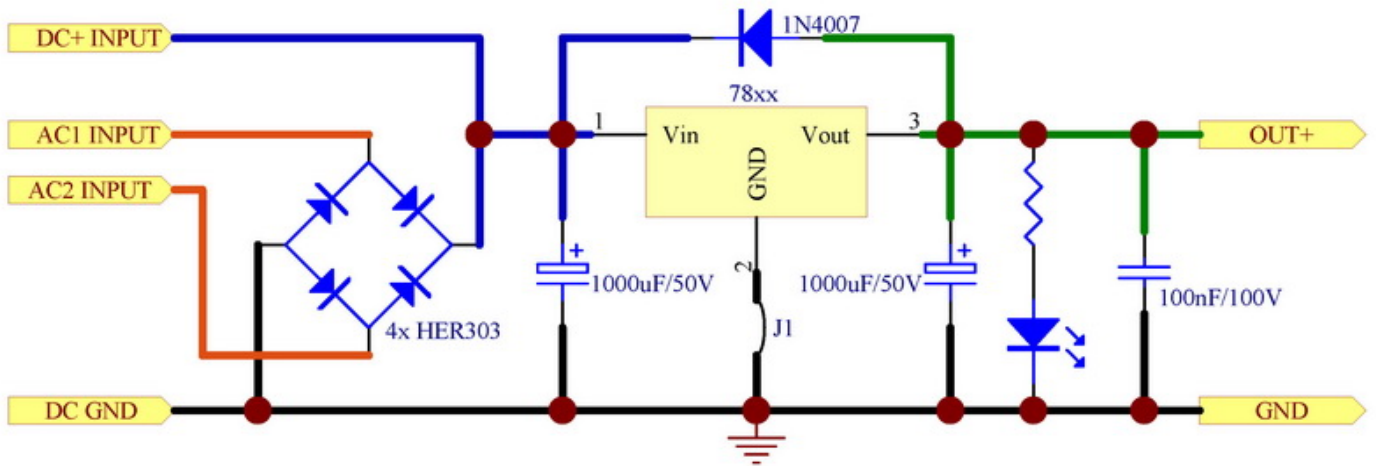
GND: DC output ground (0V).

VR1:

Only for adjustable version, for output voltage value adjust.

Schematic:

Not-adjustable Version



Adjustable Version

