



EVR DC/DC CONVERTER CALIBRATION MANUAL

Abisai Ngalande

Table of Contents

Tools.....	3
DC/DC Parts Identification.....	3
Setting output voltage at 5V.....	3
Setting output voltage at 12V.....	4
Setting output voltage at 19.5V.....	4

Tools

- Multimeter
- Precision flat screw driver
- Dummy load

DC/DC Parts Identification

Setting output voltage at 5V

1. Remove the cover.
2. Connect multimeter to the output DC/DC converter.
3. Connect 24V source to the input of DC/DC converter.
4. By default it will show 19.5V on multimeter
5. Adjust the Output Voltage Adjustment which is located next to the output terminals. Turn counter clockwise until the voltage drops to 5V.
6. Connect the dummy load to the output if the green (it is clear when not powered) LED light up, turn *Output Current Adjustment* next to green LED until it is off, and the voltage is back to 5V.

Disconnect everything

When done label it.

Setting output voltage at 12V

1. Remove the cover.
2. Connect multimeter to the output DC/DC converter.
3. Connect 24V source to the input of DC/DC converter.
4. By default it will show 19.5V on multimeter
5. Adjust the Output Voltage Adjustment which is located next to the output terminals. Turn counter clockwise until the voltage drops to 12V.
6. Connect the dummy load to the output if the green (it is clear when not powered) LED light up, turn *Output Current Adjustment* next to green LED until it is off, and the voltage is back to 12V.

Disconnect everything

When done label it.

Setting output voltage at 19.5V

1. Remove the cover.
2. Connect multimeter to the output DC/DC converter.
3. Connect 24V source to the input of DC/DC converter.
4. By default it will show 19.5V on multimeter. In-case it is not 19.5V Adjust accordingly clockwise to increase and counter clockwise to decrease.
5. if the green LED light up, turn *Output Current Adjustment* next to green LED (it is clear when not powered) until it is off, and the voltage is back to 19.5V.

Disconnect everything

When done label it.