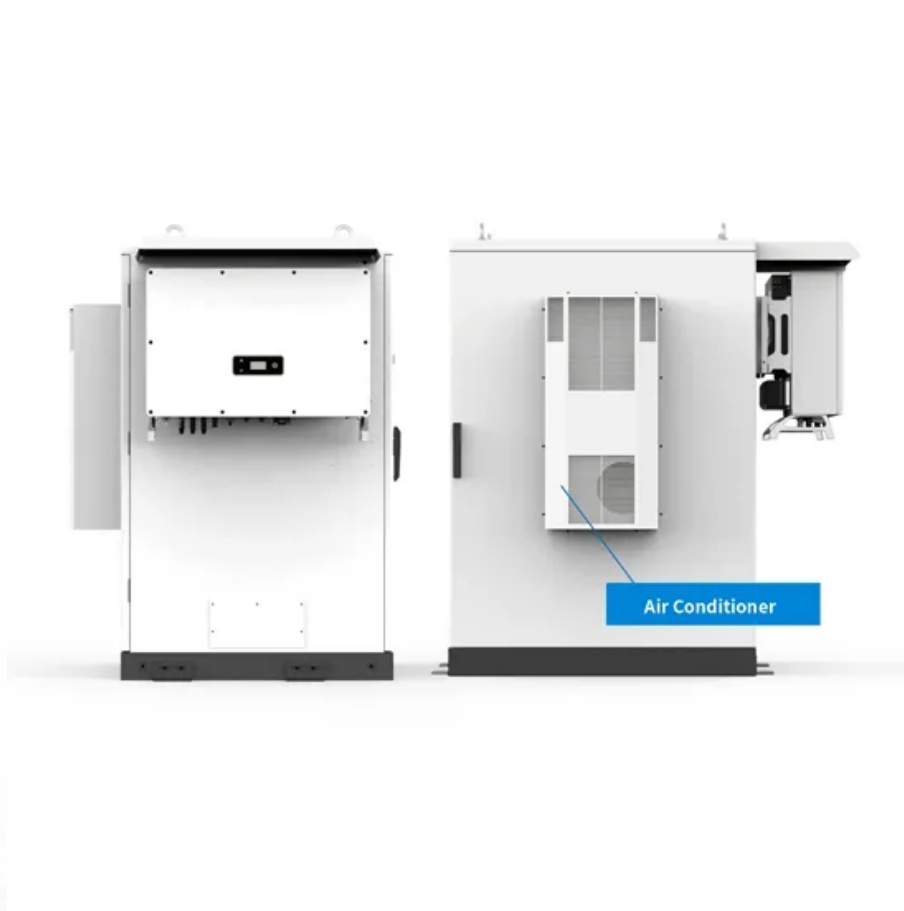


Outdoor power supply DC keeps rising





Overview

Why is the error led on a DC power supply on?

In this case, the "Error" LED on a DC power supply has turned on. Your troubleshooting task is to determine if the problem is the power supply, the input supply voltage, or a load change on the demand side. You can do this by checking the AC input voltage and the DC output voltage.

Should a power supply be tuned to a DC load?

Furthermore, even if the load's current only varies within the limited range, the power supply must be tuned and tested against the "load step response", using a DC load.

How to troubleshoot a DC power supply?

Troubleshooting electrical components is a necessary part of keeping equipment functioning. The best tool to use for preliminary troubleshooting in a DC power supply is a digital multimeter (DMM). Digital multimeters are easy to use and can measure voltage, which is important for pinpointing problems with a DC power supply.

How do I know if my power supply is DC?

Identify the DC output terminals of the power supply. These are usually marked with a "+" for the positive and a "-" for the negative. e. Touch the black probe to the negative (-) terminal and the red probe to the positive (+) terminal of the DC power supply. f. The multimeter will display the DC output voltage.

How does a DC load work?

To put it simply, a DC load applies load pulses periodically (for instance: low current level: 1A, high current level: 3A) to the supply output while the output voltage is monitored for any ringing.



Why is my power supply output voltage unstable?

If you design/repair a power supply and the output voltage is unstable, then one probable reason could be an incorrect switching frequency. The switching frequency plays a very significant role in calculations and component values. A significant drift from the calculated frequency or any instability can cause the output voltage to fluctuate.



Outdoor power supply DC keeps rising



[Why does the CV change when I hook up to the device I am ...](#)

If you violate Ohm's law with the settings on the power-supply, physics will force the voltage and current supplied to acceptable values. I suggest you check to make sure you haven't ...

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[Output Voltage Increasing very slowly . Forum for Electronics](#)

I still have some issues with the power supply. Now, what is happening is, when i give 310v as input the supply works fine, but when i give 540v as input, the output voltage is ...



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[DC-DC converter keeps ramping up the voltage untill failure??](#)

The waveforms of the input and output do not look noisy, the input doesn't drop very much upon startup, only thing is that the output just keeps rising over time. Are there any ...

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power supply

I've manufactured a PCB which includes this circuit, but unfortunately I noticed very significant voltage spikes / ringing on the rising and falling edges of the MOSFET switching.

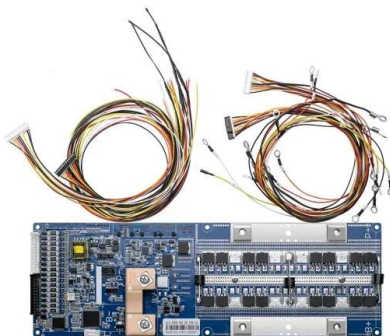
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[Troubleshooting DC Power Supplies Using a Digital...](#)

Your troubleshooting task is to determine if the problem is the power supply, the input supply voltage, or a load change on the demand side. You can do this by ...

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[Output Voltage Increasing very slowly . Forum for ...](#)

I still have some issues with the power supply. Now, what is happening is, when i give 310v as input the supply works fine, but when i give ...

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[Troubleshooting DC Power Supplies Using a Digital Multimeter](#)

Your troubleshooting task is to determine if the problem is the power supply, the input supply voltage, or a load change on the demand side. You can do this by checking the AC input ...

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DC Power Supply

Your power supply should be rated for at least 20% more than your load peak, otherwise you will likely shorten the life of your power supply. If your load exceeds the rating of ...

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[Outdoor DC LED Power Supplies , QTL formerly Q-Tran](#)

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[Why does my voltage from the DC supply box change ...](#)

Your power supply has settable current limit. It is set to some value and your load tries to draw more, so the current limit is reached and the ...

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[Terrasat 48VDC Outdoor Power Supply - 250W](#)

Terrasat Universal AC 250W Outdoor Power Supply (no fan) for C-band BUCs through 25W, Ku-band BUCs through 16W, and X-band BUCs through 20W, ...

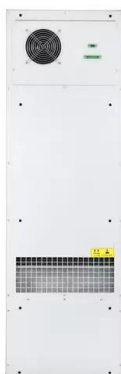
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[Help w/ power supply issue-rising voltage on negative output](#)

Two of the three power supplies have their outputs connected to XLR sockets, which seemed like a possible culprit, but a close look didn't seem to reveal any shorted ...

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[Issue with DC power supply? please help](#)

As you know power supply has output impedance (Z_s), the really good power supply will have very very low impedance. If the load has very low impedance, lower than the ...

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[Why does my voltage from the DC supply box change on its own?](#)

Your power supply has settable current limit. It is set to some value and your load tries to draw more, so the current limit is reached and the supply adjusts the output voltage ...

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[The Most Common CCTV Camera Power Supply ...](#)

Explore the common issues with CCTV camera power supplies. Dive into the root causes, practical solutions, and best practices to prevent future problems. ...

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Voltage Fluctuation , Altium

If you design/repair a power supply and the output voltage is unstable, then one probable reason could be an incorrect switching frequency. The switching frequency plays a ...

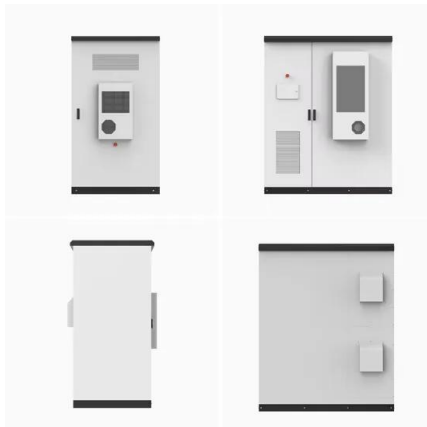
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[Outdoor Power Supply - PurpleAir](#)

This IP68-rated power supply provides protection from the elements in an outdoor setting. Featuring a 3A potted micro USB (5V) connection, it is perfect for powering your Flex, Zen, ...

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[Amazon : Waterproof 12v Power Supply](#)

LED Driver 120W 12V DC Low Voltage Output, Waterproof IP67 LED Power Supply, LED Transformer with 3-Prong Plug 3.3 Feet Cable for LED Light, Computer Project, Outdoor Light

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[Amazon.ca: Outdoor 12v Power Supply](#)

12V 400W LED Power Supply, IP67 Waterproof Outdoor Power Supply, AC 90-140V to DC 12 Volt 33.3A LED Driver, Low Voltage Transformer, Adapter for LED Strip Light, 3D Printer, ...

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[Why Does Your RCD Keep Tripping? Top 10 Causes...](#)

Are you worried about why your RCD is tripping frequently? Check out this guide to learn about the most common reasons and their solutions.

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