

## SolarInnovate Energy Solutions

# Split parallel outdoor power supply



## Overview

---

What is a parallel power supply?

Parallel power supplies refer to a configuration where multiple DC power supplies are connected in parallel to increase total output current. Each power supply shares the current load, ensuring that no single unit is overloaded. Higher Current Output – Allows for increased power delivery by combining the output of multiple units.

How does a split voltage power supply work?

In a split voltage power supply application, the analog circuit is connected between the positive voltage rail and the negative voltage rail. This results in the load current of both regulators to be equal in magnitude. Figure 2 is a plot of the input current versus the output current for the circuit in Figure 1.

What is a split-voltage power supply?

These split-voltage power supplies are generally low power supplies supporting tens of milliamps of differential current loads. Figure 1 shows such a power supply using two LTC3388-3 20V high efficiency step-down regulators powered from a 6V–12V power source. Figure 1. Easy split-voltage power supply.

Why do analog circuits need a split-voltage power supply?

Analog circuits often need a split-voltage power supply to achieve a virtual ground at the output of an amplifier. These split-voltage power supplies are generally low power supplies supporting tens of milliamps of differential current loads.

Can a 10000 power supply be used in parallel?

While the above is true for many power supplies, EA's 10000 series products allow the user to combine different power levels in parallel. The only requirements are that they must have the same voltage rating, and they must

be the same family. Examples are pairing PSB with PSBE or PUB and PSI with PS or PU.

What is Ti split-rail power system?

For higher output current with dual isolated output voltages, TI presents a split-rail solution using company's fly-buck DC/DC converter TPS55010 and an off the shelf transformer. The half-bridge power stage comprising high- and low-side FETs are integrated in the same package.

## Split parallel outdoor power supply

---



### Easy, $\pm 5V$ Split-Voltage Power Supply for Analog Circuits ...

Jul 1, 2011 · An easy-to-implement split-voltage power supply using the LTC3388 yields a low quiescent current, high efficiency solution for powering low current analog circuits that need a ...

---

### How to make a split-supply from a single supply by using ...

Jul 14, 2025 · I want to obtain  $\pm 12VDC$  supply from a  $24VDC$  supply where the total load will driver  $100mA$  max. I tried using two power supplies but one of them blew up. I need the split ...



---

## Contact Us

For catalog requests, pricing, or partnerships, please visit:  
<https://institut3i.fr>