



**GETON CONTAINERS**

# **Inverter using DC 220V as power supply**





## Overview

---

What is a 12V DC to 220V AC inverter?

The 12V DC to 220V AC inverter circuit is designed using IC CD4047. The IC CD4047 acts as a switching pulse oscillating device. The n-channel power MOSFET IRFZ44n acts as a switch. The 12-0-12V secondary transformer inversely used as a Step-up transformer from converting low AC to High Ac.

What is a DC to AC inverter circuit?

A DC to AC inverter circuit transforms 12V DC input into 220V AC output, enabling you to power standard household devices from battery sources. This comprehensive guide will walk you through the theory, components, design considerations, and step-by-step construction of a reliable 12V to 220V inverter circuit.

Do you need an inverter to convert DC to AC?

Therefore, an inverter is required to convert the DC voltage into an AC voltage. Now, coming towards the definition, inverters are simple electronic devices that can convert a DC signal into an AC signal of the desired voltage level. In addition, they are easy to design, build and assemble. Also, they are relatively inexpensive.

How a voltage driven inverter circuit works?

Here, a simple voltage driven inverter circuit using power transistors as switching devices is build, which converts 12V DC signal to single phase 220V AC. The basic idea behind every inverter circuit is to produce oscillations using the given DC and apply these oscillations across the primary of the transformer by amplifying the current.



## Inverter using DC 220V as power supply



### [12v DC to 220v AC Portable Inverter : 7 Steps](#)

12v DC to 220v AC Portable Inverter: This project's goal is to create an inverter circuit that will convert the DC power produced by the solar panels into AC power at 220V, making it ...

[Free Quote](#)



### [12V DC to 220V AC Inverter Circuit & PCB](#)

An inverter circuit is used to convert the DC power to AC power. Inverter Circuit are very much helpful to produce high voltage using low voltage DC supply or Battery. DC-DC ...

[Free Quote](#)



### [Complete Guide to Building a DC to AC ...](#)

Converting direct current (DC) from batteries or solar panels into alternating current (AC) for household appliances is a fundamental requirement in many electrical projects. A DC to AC inverter circuit ...

[Free Quote](#)

### [12V DC to 220V AC Inverter Circuit using CD4047](#)

Here 12V DC to 220V AC Inverter Circuit using CD4047 CMOS low power multivibrator IC designed with few easily available external components. It can be used as ...



[Free Quote](#)

Page 4/6



## [12v DC to 220v AC Inverter Circuit using ...](#)

Now, coming towards the definition, inverters are simple electronic devices that can convert a DC signal into an AC signal of the desired voltage level. In addition, they are easy to design, build and ...

[Free Quote](#)

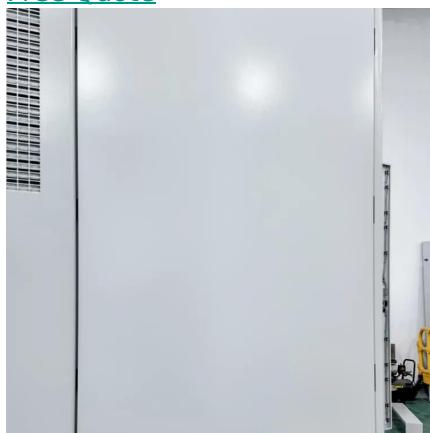


## [12v DC to 220v AC Portable Inverter : 7 Steps](#)

12v DC to 220v AC Portable Inverter: This project's goal is to create an inverter circuit that will convert the DC power produced by the solar panels into AC power at 220V, making it possible to power a variety of electrical

...

[Free Quote](#)



## [12V DC to 220V AC Inverter Circuit & PCB](#)

An inverter circuit is used to convert the DC power to AC power. Inverter Circuit are very much helpful to produce high voltage using low voltage DC supply or Battery. DC-DC Converter circuit can also be ...

[Free Quote](#)



## Complete Guide to Building a DC to AC Inverter Circuit: 12V to 220V

Converting direct current (DC) from batteries or solar panels into alternating current (AC) for household appliances is a fundamental requirement in many electrical projects. A DC ...

[Free Quote](#)



### [Make this 12V DC to 220V AC Converter](#)

...

Make this 12V DC to 220V AC Converter Circuit using IC 555 Last Updated on April 19, 2025 by Admin 2 Comments In this article we are basically learning one very easy and straight method how we can get or ...

[Free Quote](#)



### [Make this 12V DC to 220V AC Converter Circuit using IC 555](#)

Make this 12V DC to 220V AC Converter Circuit using IC 555 Last Updated on April 19, 2025 by Admin 2 Comments In this article we are basically learning one very easy ...

[Free Quote](#)



### [12v DC to 220v AC Inverter Circuit using CD4047 IC](#)

Now, coming towards the definition, inverters are simple electronic devices that can convert a DC signal into an AC signal of the desired voltage level. In addition, they are ...

[Free Quote](#)



## [220 Volt Inverter: The Ultimate Guide to Choosing the Right ...](#)

The Ultimate Guide to 220 Volt Inverters In today's world, reliable power sources are essential for both home and outdoor activities. One solution that has gained popularity is ...

[Free Quote](#)



## **Contact Us**

---

For catalog requests, pricing, or partnerships, please visit:  
<https://www.getonco.co.za>

**Scan QR Code for More Information**



<https://www.getonco.co.za>