



**EQACC SOLAR**

**12V to 400V inverter**



## Overview

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Can a DC-DC converter convert 12V to 400V?

DC-DC converter, 12V to 400V?

Is this possible?

To be able to charge a high voltage battery (~400V) from solar panels I need a dc-dc converter that can boost up the voltage from the low voltage system (~12V) to the higher voltage. The power needed is about 400W, or 1A at the output.

What is a 400V converter?

This 400V converter also provides galvanic separation between the input and output. These converters are available with a wide range of input and output voltages. In the datasheet you will find an overview of the standard versions. In addition to the standard versions, we also supply converters that are fully tailored to your requirements.

What is the output voltage of a 400W converter?

The 400W converter has an input range of 10.8V to 14.9V DC. The output voltage is equipped with a fine adjustment that allows the output voltage to be adjusted with a range of 392V – 408V DC. The converter is protected against overloading, overvoltage and undervoltage.

Can a 3 phase inverter convert 12V to 400V?

While it's certainly possible to have a three phase inverter that converts 12V to three phases of 400V, consider the power that your pump needs:  $P = U \cdot I$   $\approx 1$  kW. Do to the way this universe works, you need that 1 kW to come from somewhere, in this case your battery.

## 12V to 400V inverter

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### **TIDM-BIDIR-400-12 reference design , TI**

The Bidirectional 400V-12V DC/DC Converter Reference Design is a microcontroller-based implementation of an isolated bi-directional DC-DC converter. A phase shifted full-bridge ...

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## **2W Output Power 12V Input to 400V Output DC DC Converter**

2W Output power 12V input to 400V output DC DC Converter 1. Production description: Sunyuan the newest developed GRF series isolated high voltage module dc-dc ...



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### **12vDC to 400V DC Boost converter for inverter application**

12v to 400v Hi Friends, I am designing a transformerless inverter (800VA) for home application. I want to convert 12v DC /70A to 400VDC using a boost converter. I have ...

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## HV-LV DC-DC Converter

Solutions HV-LV DC-DC converter modules provide power flow between the 400-volt (high voltage) and 12-volt (low voltage) power nets or 800-volt (high voltage) and 12-volt ...

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## Power Inverter 12V 400V

A 12V to 400V power inverter is an electronic device designed to convert low-voltage direct current (DC) power--typically sourced from a car battery, deep-cycle battery, or solar panel ...

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## 12V To 400V Boost Converter

A 12V to 400V boost converter is a powerful solution that bridges the gap between lower voltage sources and higher voltage requirements. Its ability to boost power efficiently means you can ...

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## high voltage

To be able to charge a high voltage battery (~400V) from solar panels I need a dc-dc converter that can boost up the voltage from the low voltage system

(~12V) to the higher ...

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## 12v

$2.4A \times 400V = 960W$  This means with an inverter (if you could find a 400VAC inverter you'd need at least 80A from a 12V battery system and a little more to run the inverter.

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