

triple active bridge converter. The proposed duty ratio control method, ZVS conditions is achieved over the entire phase shift region. The three port bidirectional converter having the following features, all ports are bidirectional, including load port for application, Centralized control of power flow, reduced switching losses due to soft-switching operation.

High frequency three-winding transformer is proposed to provide the isolation between the three Ports. Due to single-stage power conversion, the converter has a centralized control for regulating the output voltage. The converter naturally yields to bi-directional power flow in all ports. One method of building a single-stage power converter circuit interfacing multiple energy sources and the load is to emulate a multiple bus power system. HF transformers have small size, light weight, and low cost compared to bulky line frequency transformers.

All of these topologies use inductors as the main power transfer and storage element. Another method of building a single stage power converter circuit is to use time-sharing principle i.e., at any time instant only one of the sources will be connected to the load. These converters employ square-wave pulse width modulation to achieve voltage regulation. The average output voltage is varied by varying the duty cycle of the power semiconductor switch.

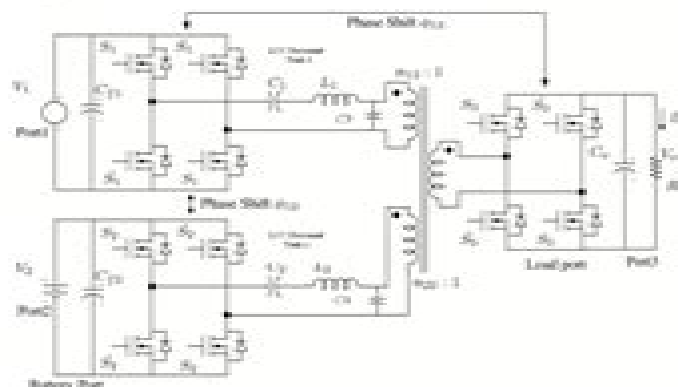


Fig.1 Three-port DC-DC converter

An LCC resonance converter shares the advantages of other resonance converters, when the switching frequency is lower than the resonant frequency [8], and Zero voltage switching suitable for MOSFETs when the switching frequency is higher than the resonant frequency. These characteristics make the LCC resonant converter a potential candidate for high power and high frequency application.

Besides the above features, the LCC resonance converter offers additional merits when compared with series resonant converter (SRCs) and parallel resonance converter (PRCs). First the series capacitor the equivalent at light load end. This is because the tank capacitances smaller, this results in an increase of the characteristics impedance of the resonant tank, and is helpful to limit the circulating current. Secondly, the voltage conversion characteristics allow the converter to operate in a wide load range (from full load to no load), where PRCs may lose regulation at full load end SRCs may lose regulation LCC resonance converter behaves more like a PRCs under light load, and an SRCs under full load. Therefore, the circulating energy at light load is minimized. Thirdly the LCC converter has inherent short circuit protection.

3. DESIGN

The proposed circuit is shown in Fig.1. It has two LCC resonant tanks formed by L1, C1 and C3, L2, C2 and C4, respectively. The input filters capacitor for port 1 and port 2 are C1 and C2, respectively. Two phase shift variables ϕ_{13} and ϕ_{12} are considered as shown in Fig.1. They control the phase shift between the square wave outputs of the bridges. The phase shift ϕ_{13} and ϕ_{12} are considered positive.

The transformer is a core component. It provides isolation and voltage matching. The selection of the transformer turns ratio using the formula,

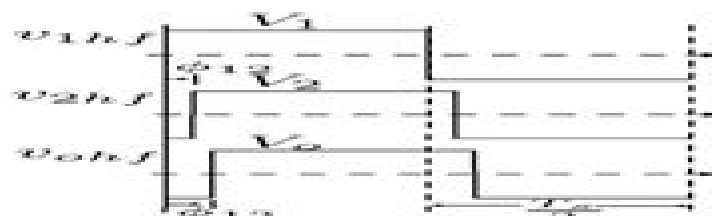


Fig.2 PWM waveform with definitions of phase-shift variables ϕ_{13} and ϕ_{12}

$$\frac{N_1}{V_1} = \frac{N_2}{V_2} = \dots = \frac{N_N}{V_N} \quad \dots \dots \dots (1)$$

Where N1, N2 are the winding turn's number and V1, V2 are the port voltages. The power throughput of the transformer should be the maximum of all the possible situations. When switching frequency is fixed, the power flow through the

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web problem 6 2 1 3 explain why ice which is a crystalline solid has a melting temperature of 0 c whereas butter which is an amorphous solid softens over a range of temperatures answer

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web 13 states of matter is shared under a not declared license and was authored remixed and or curated by libretexts in chapter 13 we discussed the properties of gases here we consider some properties of liquids and solids as a review the table below lists some general properties of the three phases of matter

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web choose all answers that apply the forces of attraction between the water molecules increase a the forces of attraction between the water molecules increase the space between the water molecules decreases b the space between the water molecules decreases the kinetic energy of molecules increases c

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web how many states of matter there are depends on whom you ask and how they distinguish phases this count could range anywhere from 5 or 6 to hundreds but for a beginning chemistry student there are only four that are important plasma is mainly important in understanding lightning and certain modern technologies

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web complete chemistry for cambridge igcse answers educatalyst 9 page 11 core 5 a liquid state b ethanol c a cooling curve similar to the one in the question could be drawn with the horizontal regions at exactly 0 c and 100 c 6 a the particles are held closely together in a fixed position often in the form of a lattice

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web the amount of energy in molecules of matter determines the state of matter matter can exist in one of several different states including a gas liquid or solid state these different states of matter have different properties which are illustrated in the figure below

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web solid matter is by far the most common state of matter found on earth 99 98 of the planet s mass in solids the particles or atoms of a substance are packed tightly together and vibrate about fixed positions the vast majority of pure elements will exist as solids at room temperature in terms of particle theory solids can be described as spheres

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web most substances can exist in three states of matter so we re talking about solids liquids or gases now we re gonna say these forms of matter have an effect on physical properties which deal with physical appearance or state now with the states of matters we have two terms you should familiarize yourself with

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web broadly speaking there are five known states of matter viz the solid state the liquid state the gaseous state the plasma and the bose einstein condensate however in the face of increasing scientific knowledge this number is highly likely to change a state of a physical or a chemical system is determined by the values of certain

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web aug 19 2020 the four states of matter observed in everyday life are solids liquids gases and plasma other states of matter also exist although they require special conditions here is a look at the states of matter their properties and the names of phase transitions between them what is a state of matter