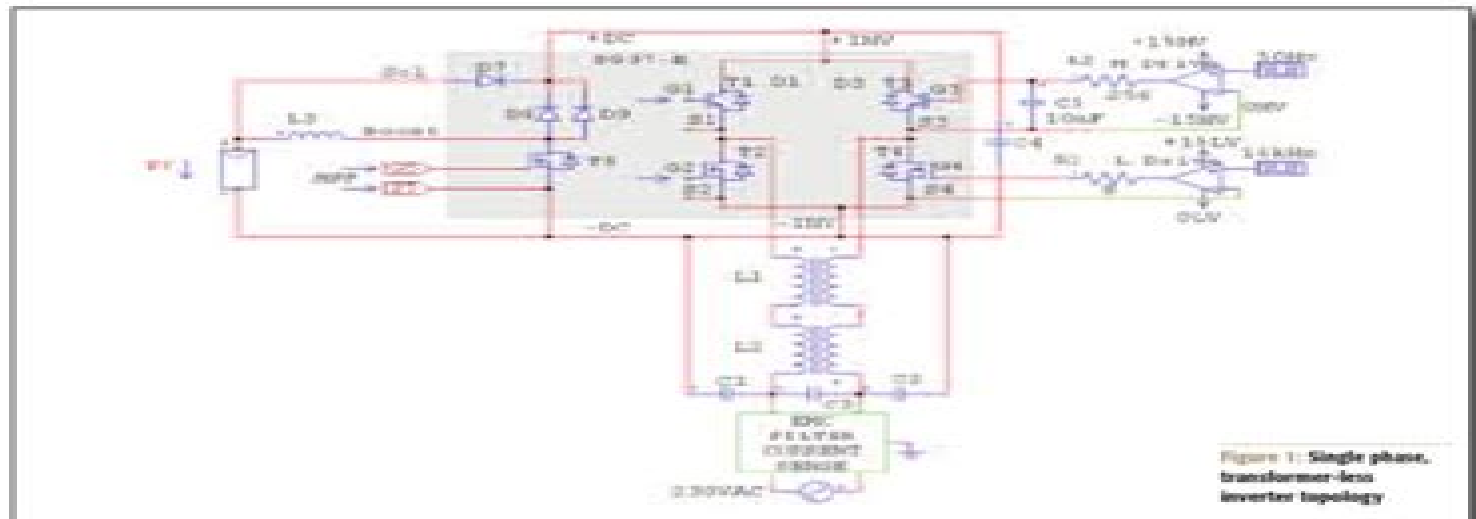


Design Concept for a Transformerless Solar Inverter

Vincotech is able to offer a wide spectrum of power modules for solar applications. For transformer-less single phase solar inverter the power module FZ06BIA045FH-P897E is able to carry a output power of 6kW but for efficiency optimisation a nominal power of 3kW is recommended. **Michael Frisch and Temesi Ernő, Vincotech Germany and Hungary**

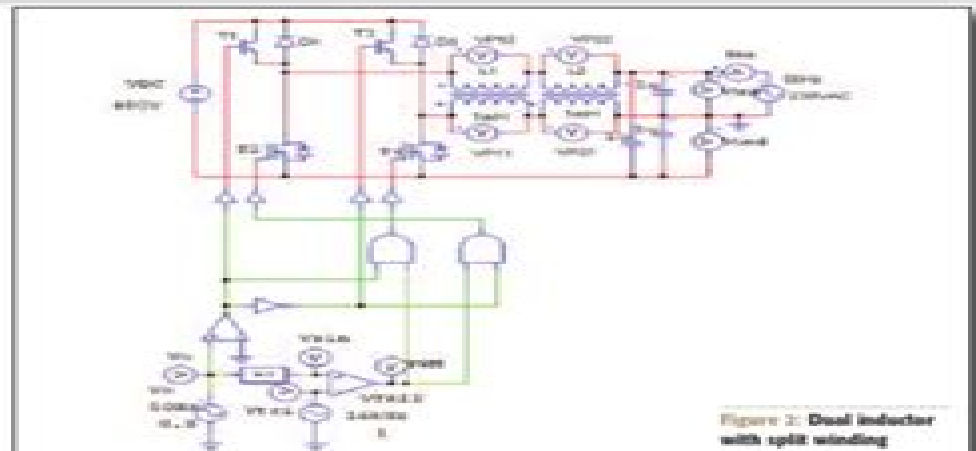


The topology is supporting the required functions of adjustment to the maximum power point (MPP) of the solar string and inverting to sinusoidal output current and voltage (see Figure 1).

Booster

The booster is active when the solar voltage is below the peak of the power grid voltage.

In this case the booster (T1, D1, D2) sets the MPP for the photo voltaic solar cell (PV). When the PV MPP voltage reaches the peak of the line, the bypass diode (D3) cuts boost stage losses. The adjustment of the MPP has to be controlled by the output H-bridge inverter. The output of the booster is the DC link voltage, filtered by a capacitor (C4). This capacitor should be a parallel composition of a high tangent delta film capacitor and an electrolytic capacitor. The high



Transformerless Inverter Design

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