

SINGLE PHASE INPUT-THREE PHASE FULL BRIDGE RECTIFIER CIRCUIT
AND SINGLE PHASE INPUT PSEUDO FOUR PHASE FULL BRIDGE RECTIFIER
CIRCUIT

A B S T R A C T

The present invention provides Single phase input-Three phase full bridge rectifier circuit lower increase of cost and limitation free of power capacity range, and provides small and light weight Single phase input-Pseudo four phase full bridge rectifier circuit which keeps the constant voltage under the DC load variations, by overcoming the technical problems and improving radically conversion efficiency, power factor and power line harmonic.

Single phase input-Three phase full bridge rectifier circuit having the following characteristic process:First :Connect one input terminal of a single phase AC input terminal with one terminal of a capacitor, and connect another terminal with one terminal of a choke coil. Make the third terminal by connecting another terminal of a capacitor and another terminal of a choke coil.

Connect 2 single phase AC input terminals and the third terminal with the AC input terminal of a 3 phase full bridge.

Second:By fixing the value of the above-mentioned capacitor and choke coil corresponding to the DC load resistance value of a DC output terminal, an equivalent 3 phase rectifier circuit is composed, whereby, 3 phase full bridge rectifier waveform is made.