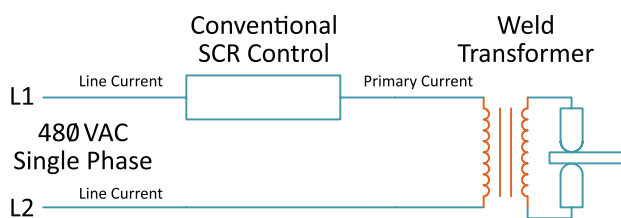


WeldComputer Control Reduces Demand on Incoming Power Lines

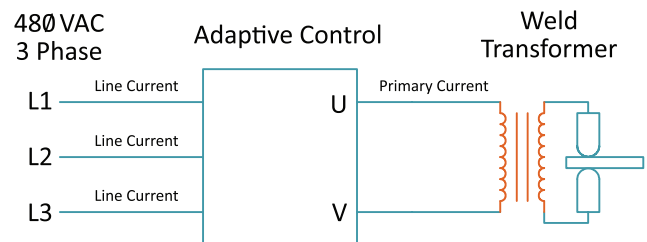
In single phase welding applications where the primary current requirement presents an excessive load on the incoming power lines, WeldComputer wave synthesis control technology offers a practical way to reduce the current demand on each power line by distributing the load over all three power line phases.



SINGLE PHASE WELDER WITH CONVENTIONAL SCR CONTROL CONNECTED TO SINGLE PHASE POWER SOURCE



SINGLE PHASE WELDER WITH WELDCOMPUTER CONTROL CONNECTED TO THREE PHASE POWER SOURCE



Example: A single phase welder that draws 800 amps primary current will draw 656 amps from each power line when connected to a three phase power source with a WeldComputer Control.

In addition to reducing the demand on each phase, this arrangement will increase the power factor of

the load on the power lines and reduce the affect of power line fluctuations on the welding process.

While this example represents the minimum guaranteed current reduction, actual current reduction on the power lines from swapping out the control is typically double this amount.