

SWITCH-MODE POWER SUPPLY FOR A BRIDGED LINEAR AMPLIFIER

Abstract of the Disclosure

A power converter which includes a bridged power amplifier powered from a sole or single DC input power source through a plurality of parallel connected PWM buck converters. The converters are modulated with reference signals which operate in time alternation such that in any conversion cycle there exists a plurality of modulating wave forms which are identical except for their time delays and which are evenly spaced in time over a single conversion cycle. A feedback control amplifier compares the voltage output of the parallel connected converters through the magnitude of the amplifier's required supply voltage and drives the modulating components of the circuit to control the switching duty cycle of each of the individual PWM converters.

