This primary controller I.C., developed in BCD60II technology, has been designed to implement off-line or DC-DC power supply applications using a fixed frequency current mode control. Based on a standard current mode PWM controller, this device includes features such as programmable soft start, IN/OUT synchronization, disable (to be used for over voltage protection and for power management), precise maximum Duty Cycle Control, 100ns leading edge blanking on current sense, pulse by pulse current limit, overcurrent protection with soft start intervention, and Standby function for oscillator frequency reduction when the converter is lightly loaded.