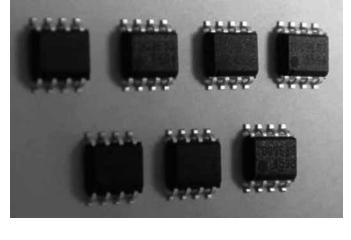


Power Electronics FA5592 series

PWM Power Supply IC with Low Standby Power

Features

- · Internal 750V high voltage startup current source
- \cdot Auto-reducing switching frequency at light load
- \cdot Low EMI noise by frequency modulation
- · MOSFET current detection is negative-polarity mode
- · Numerous kind of protect functions
- (ex. Brown-out under-voltage protection)



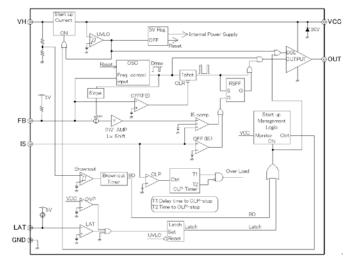
Applications

- · Note PC /Printer Adapter
- · LCD TV/Monitor SMPS

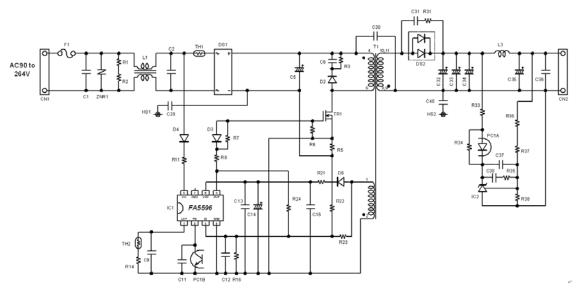
Specifications

- · Startup current source 7mA
- · VCC voltage range 11 to 24V
- · OUT pin peak current sink 1000mA, source -500mA
- · IS current limiter 0.5V±10%,
- · VCC over-voltage protection 26V±1V (latched)
- \cdot OLP timer auto-recovery switching on/off is 0.2/1.4 sec
- (OLP auto-recovery or latched)

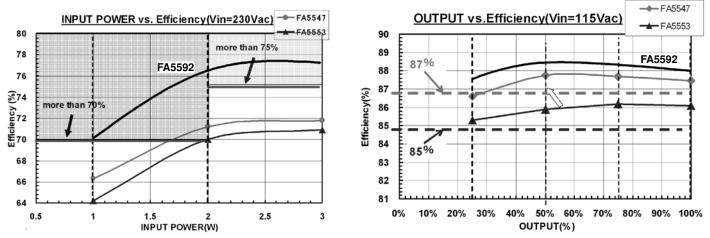
Circuit bock



Example of power supply configuration



Comparison of standby power and efficiency (power supply specification: 65 W) with conventional models



Comparison between FA5592 series and conventional models

Item	New model	Conventional models		Merits
	FA5592 series	FA5547 series	FA5553 series	Ments
Switching frequency (fosc)	65kHz/100kHz	60kHz/100kHz	60kHz/100kHz	Miniaturization
Frequency variation	fosc±6.5%	_	_	ЕМІ
Frequency reduction start FB voltage	1.7V	1.2V	1.2V	Efficiency
Brownout	Available	Available	_	Reduced parts count
Over-current detection level	-0.5V	-1V	-1V	Efficiency
Peak load support	Available	Available	_	Reduced parts count