

Fuji Power Supply Control IC

FA5528-5538 Demo Board

June 2006

TAC Group

Technical Marketing Center

Power Supply Application Div.

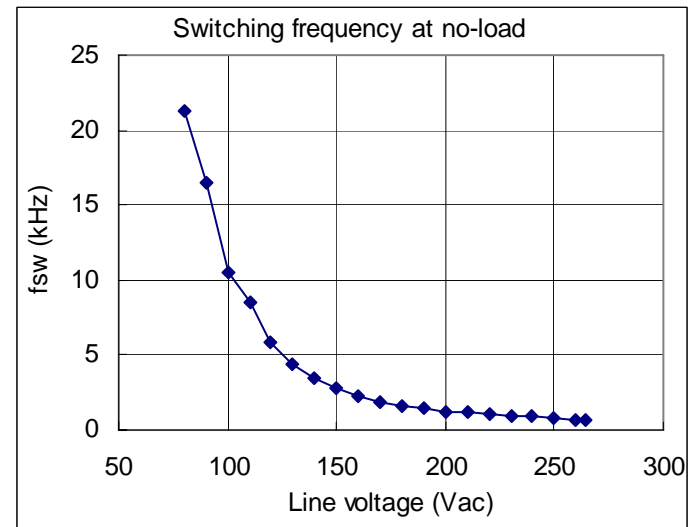
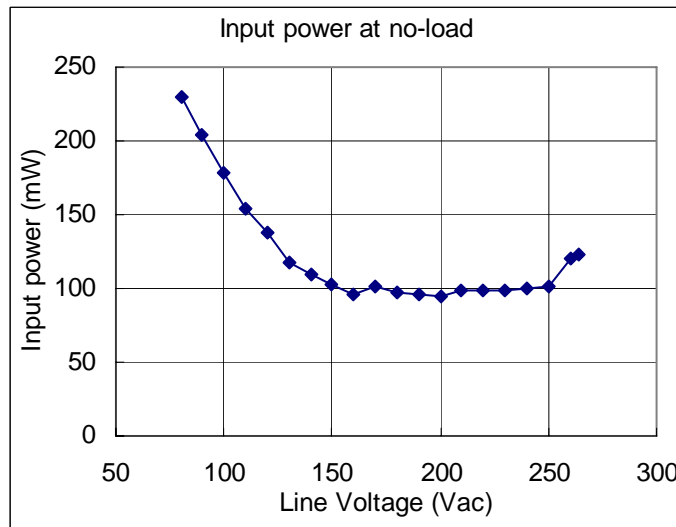
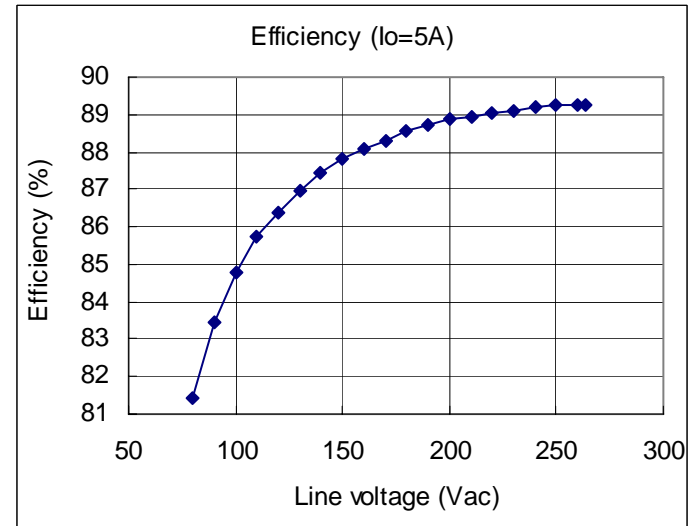
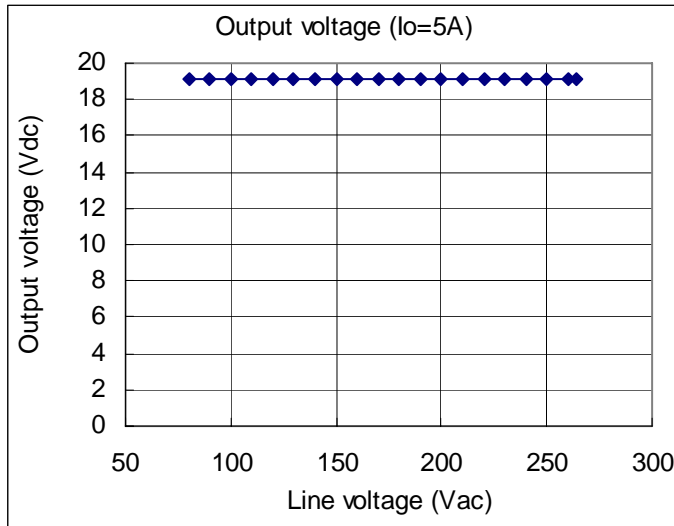
Semiconductors Group

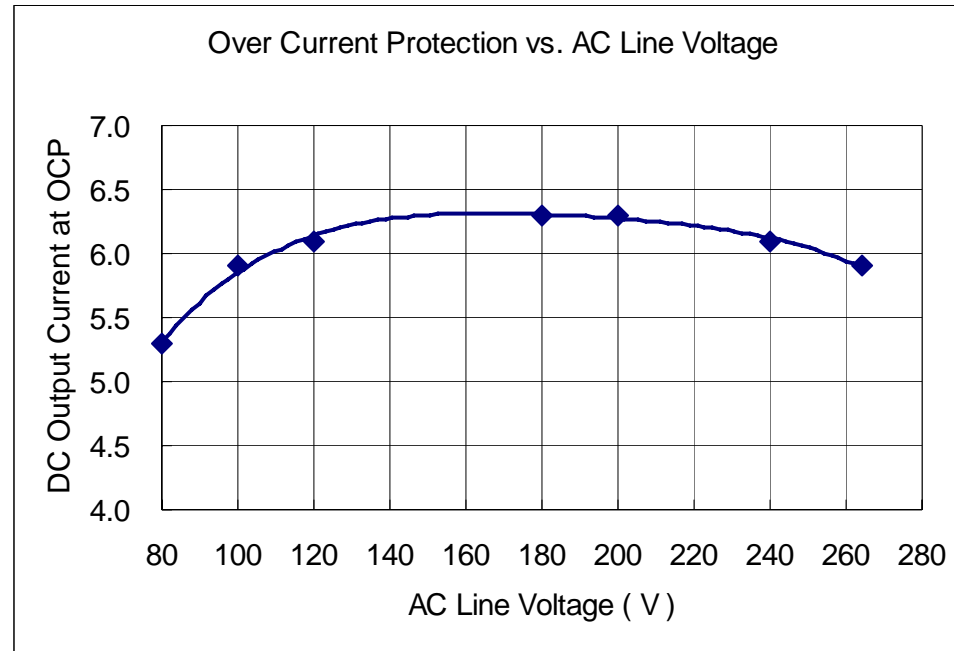
Fuji Electric Device Technology Co.,Ltd.

1. Specification

Item	Characteristics
Input voltage	80Vac to 264Vac
Output voltage	19Vdc
Output power	95W
Protection	<p>Overload Protection in timer and latch mode by using FA5528</p> <p>Overload Protection in Auto-Recovery mode by using FA5538</p> <p>Over-Current limiting</p> <p>Over-Voltage cutoff in latch mode</p>
Switching frequency	60kHz

3. Typical characteristic curves



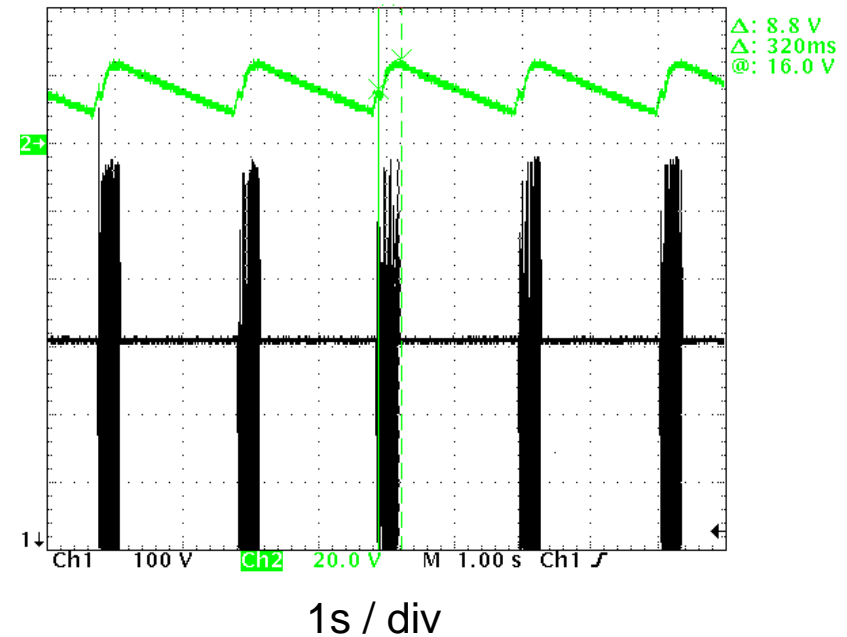
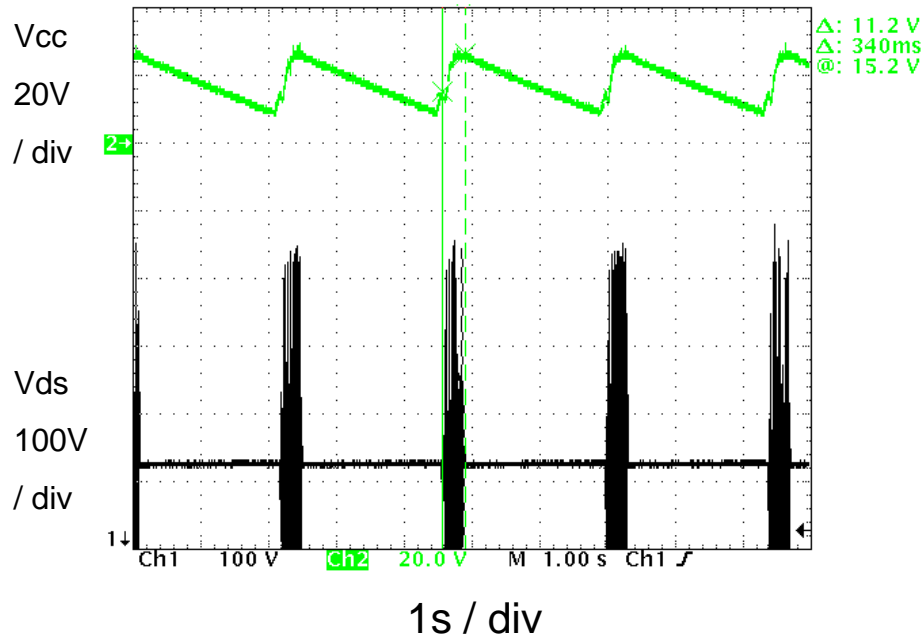


Note 2 : The variation of OCP Point will become smaller than above measurement data by better selection of Rcomp, R107 and R117 values and these ratio.

FA5538 Auto-Recovery OCP Operation Waveform

90Vac, 6A Load

264Vac, 7A Load



Note 3 : Auto-Recovery OCP(OLP) is available only for FA5536/5537/5538.

Here, the difference point for each IC is only switching frequency at middle load to full load as follows.

FA5536 : 130kHz, FA5537 : 100kHz, FA5538 : 60kHz