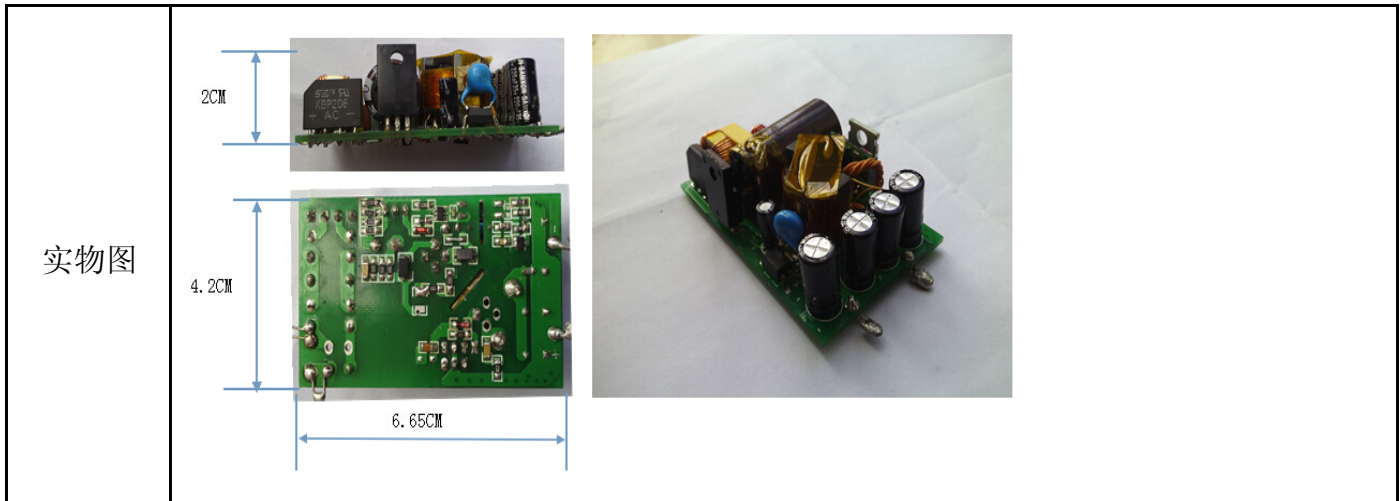




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## 5V6.8A Demoboard 测试报告



### 效率测试

Vin (V)	Pin (W)	Iout (A)	Vout (V)	$\eta$	平均效率
90	8.52	1.5	5.01	88.20%	88.38%
	11.85	2.1	5.01	88.78%	
	13.52	2.4	5.01	88.93%	
	17.43	3.1	5.01	89.10%	
	23.67	4.2	5	88.72%	
	27.13	4.8	5	88.46%	
	34.19	6	5	87.74%	
	39.03	6.8	5	87.11%	
110	8.52	1.5	5.01	88.20%	88.65%
	11.86	2.1	5.01	88.71%	
	13.53	2.4	5.01	88.87%	
	17.43	3.1	5.01	89.10%	
	23.56	4.2	5	89.13%	
	27.03	4.8	5	88.79%	
	33.94	6	5	88.39%	
	38.63	6.8	5	88.01%	

220	8.72	1.5	5.01	86.18%	88.18%
	12.05	2.1	5.01	87.31%	
	13.71	2.4	5.01	87.70%	
	17.61	3.1	5.01	88.19%	
	23.63	4.2	5	88.87%	
	26.95	4.8	5	89.05%	
	33.61	6	5	89.26%	
	38.25	6.8	5	88.89%	
264	8.76	1.5	5	85.62%	87.60%
	12.14	2.1	5	86.49%	
	13.83	2.4	5	86.77%	
	17.71	3.1	5	87.52%	
	23.82	4.2	5	88.16%	
	27.13	4.8	5	88.46%	
	33.77	6	5	88.84%	
	38.22	6.8	5	88.96%	

### 老化测试:

在常温下AC90V满载老化1H

初级MOS(不带散热器): 温度 85°C

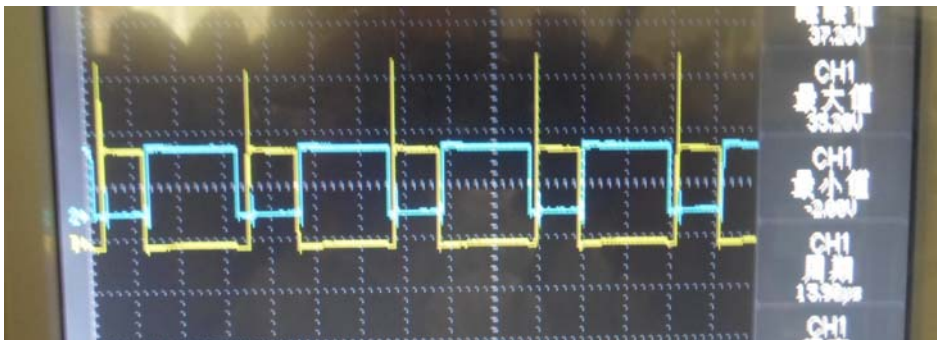
次级MOS(不带散热器): 温度 69°C

备注: 测试条件, 空调室温27°C, 不带外壳, 测试PCBA 板端输出

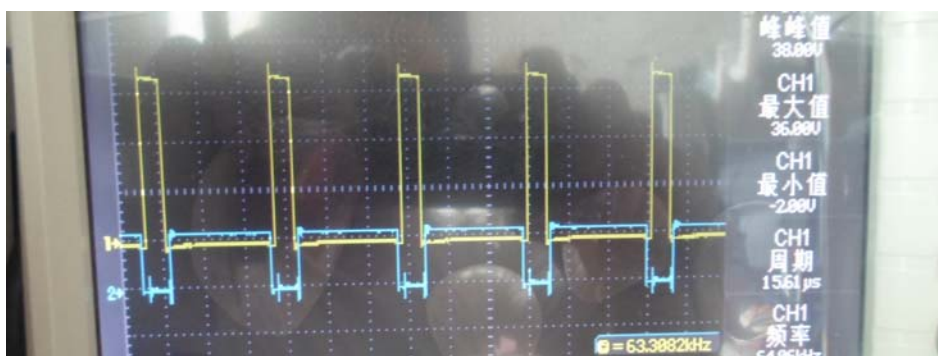
变压器: RM8, 初级mosfet 5NM65, 次级mosfet 40N121P,

### 输出同步整流波形:

AC110V输入, 满载同步整流Mofset Vds-Vgs波形 (兰色为Vgs)



AC220V输入, 满载同步整流mosfet Vds-Vgs波形 (兰色为Vgs)



测试人: 曾志敏  
日期: 2014/5/12