

5W Charger Solution Using FT831D

Spec	Application	Product	Efficiency	Input Range
5V1000mA	Charger	FT831D	69%	90~265VAC

Key Features:

- Primary side regulation without Opto-Coupler and TL431
- AC input range: 90~265VA
- High efficiency: 69% , pass energy Star EPS 2.0 (64.71%)
- $\pm 5\%$ constant voltage (CV) regulation
- Pass EN55022 Class B with enough margin
- No load dissipation less then 0.1W
- Operational temperature range: $-5^{\circ}\text{C} \sim 40^{\circ}\text{C}$
- High reliability guaranteed by built-in multi-protection functions (OVP, OLP & Short circuit protection)

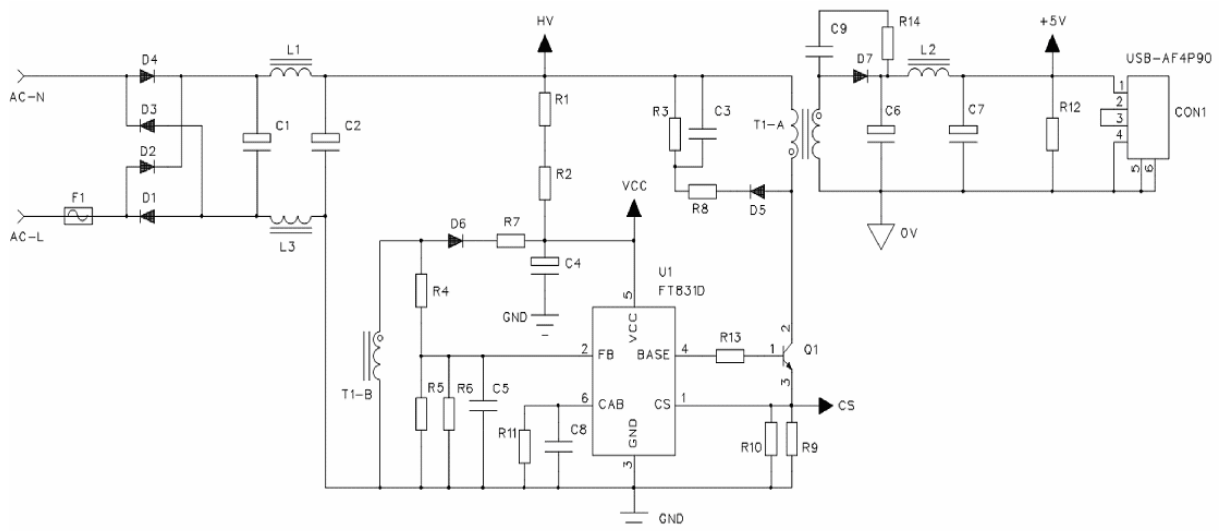


Fig1. Schematic of 5W charger using FT831D

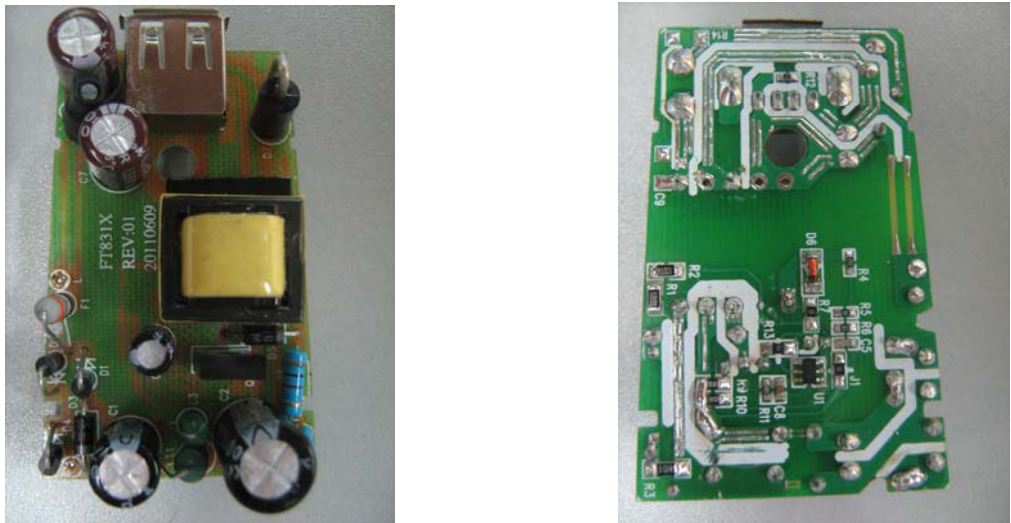


Fig2. Photo of 5W charger demo board

Testing data:

* Data measured at cable end (0.3 ohm)

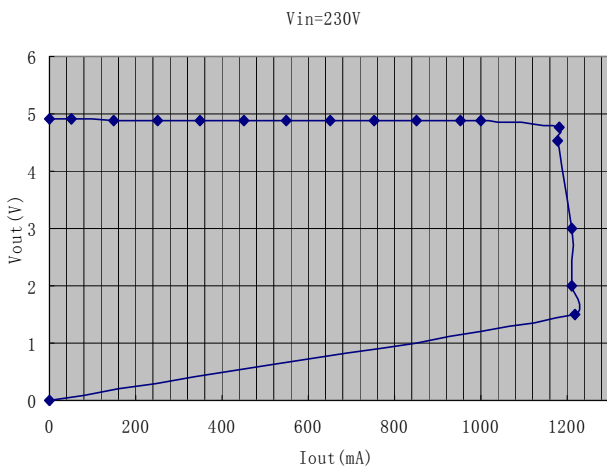


Fig3. Output IV curve

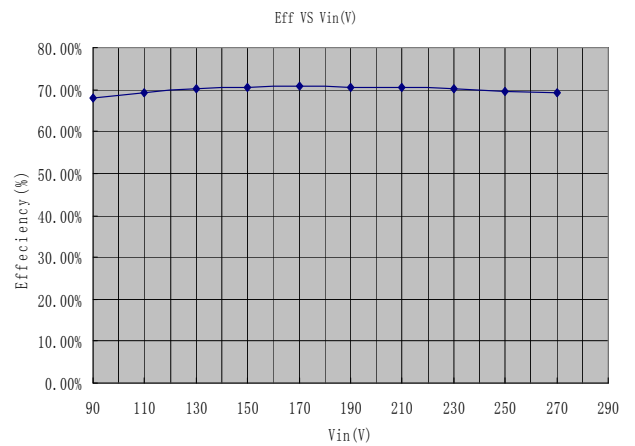


Fig 4. Efficiency vs input voltage



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