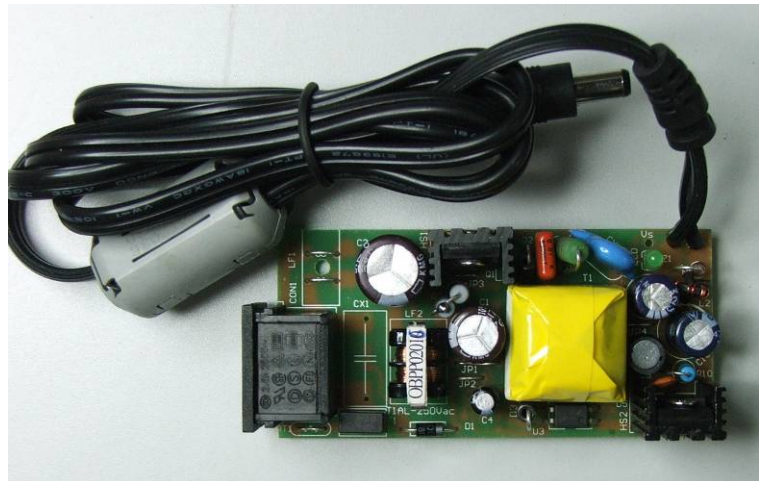


15W Adapter Module Design with OB2262 (Preliminary Release)

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Key Features

- Low component count
- Standby Power < 0.2W
- Audio noise free operation
- OCP with line compensation



Version	Date	Revision History
v.1.0	2005-6-23	Preliminary Release

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1 Adaptor Module Specification

Model Num: OBPD15W-L120A Rev. A0

1.1. Input Characteristic

- AC input voltage rating 100VAC to 240VAC
- AC input voltage range 90VAC to 264VAC
- AC input frequency 47HZ to 63HZ
- Max. In-rush current 30 A for 100VAC/50HZ at full load
(At cold Start) 75 A for 240VAC/50HZ at full load
- Input Current 0.45A (rms) max. @ full load, 100VAC/60HZ
0.23A (rms) max. @ full load, 240VAC/50HZ
- Leakage Current 0.25mA Max.

1.2. Output Characteristic

- Output Voltage +12.0V
- Output Tolerance +/-0.6V
- Min. load current 0A
- Max. load current 1.25A
- Line Regulation 1%
- Load Regulation 5%
- Ripple & Noise 50 mV

Note: Ripple & Noise is measured with 20MHZ bandwidth limited (peak to peak value) at the end of a 12-inch twisted wire terminated with a 10uF capacitor in parallel with a 0.1uF ceramic capacitor.

1.3. Performance Spec

- Total Output Power 15W Typical
- Standby Power < 0.3W @ 240Vac/50HZ, no load.
- Efficiency 75% min. @ 90Vac/60HZ with full load
- Hold up Time 10m sec. min. @ 100Vac/60HZ with full load
- Turn on Delay Time 1 sec. max. @ 100Vac/60HZ with full load
- Switching frequency 20K HZ~100K HZ Free-Running.

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1.4. Protection Features

- Short circuit Protection Output shut down (Auto recovery)
- Over Voltage Protection Output shut down when output voltage exceeds 15V
- Over Current Protection Output shut down (Auto restart)

1.5. Environmental

- Operating Temperature 0°C to + 40°C
- Operating Humidity 20 % to 90 % R. H.
- Storage Temperature -40 °C to 85 °C
- Storage Humidity 0 % to + 90 % R. H.

1.6. Dielectric withstand (Hi-pot) test

- Input to Output 3000Vac 1 min.

1.7. Insulation

- Input to Output DC 500V 10M ohm min.