# Specification for the 150W, 12V Flyback converter in DCM

Below are the of the basic specification for this flyback converter project.

* **Maximum output power:** 150W
* **Regulated voltage:** 12V
* **Switching frequency:** 100kHz
* **Flyback operates in DCM**
* **Input voltage:** 230VAC
* **Assumed input voltage variation:** +-20%
* **Assumed overall efficiency:** 80%

**Notes:**

A quick search online indicates that in Australia, the nominal mains voltage is 230VAC (same as New Zealand) with +10% to -6% variation in accordance with the system standard AS60038.

The specification input voltage variation of 20% might be too extreme, however, since the coupled inductor could saturate at higher duty cycles which occurs at lower input voltages, the input voltage variation is decided to be exaggerated to ensure reliability for now.