

# Power Supply

**Feature Name:** Power Supply

**Feature Name in Annotation:** Power\_Supply

## Source of Information

Domain knowledge, Code comment, Source Code

## Strategy Used:

Through 3D printer construction, we learned that there are power supply hardware components. Then we started from the largest and most central logic file MarlinMain.cpp, and browsing through the code comment and source code to find anything that relates to power controls or whether the comments, variables and method names contain keywords such as “Power”.

**Feature Description:** This feature is mandatory for Marlin. Power supply functionalities are connected to the board pins, and the board could have control over whether to temporarily hold off the power supply.

**Time spent:** This feature is one of 18 features that were located by manually going through all code files of Marlin using our source code method. It took one person 25 hours to identify all 18 features.

## Feature Characteristics:

Feature Name	LoFC	SD	TD	Completely Wrapped by ifdef
Power Supply	80	4	5	No

## Ratios of sources (%)

RL	PR	CM	Ifdef	DK	CC	SC	GD
0	0	0	0	45	5	50	0

**RL:** Release Log; **PR:** Pull Request; **CM:** Commit, **Ifdef:** Ifdef Expression; **DK:** Domain Knowledge; **CC:** Code Comment; **SC:** Source Code; **GD:** G-Code Documentation.