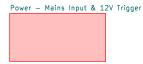
ES-Speed-Box³² - Power Supply

Issued 2025-07-13

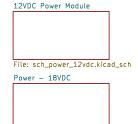
Rev 1.2

PROJECT ARCHITECTURE



Status: Tested

PCB - Mounts & Fiducials



File: sch_power_boost_18vdc.kicad_sch

Power - Dual Rail 24VDC

PROJECT DESCRIPTION

An all in one speed controller and power supply to suit Pro-Ject Turntables with 16VAC synchronous motors (Expression 3, etc) as well as powering a 18VDC Pro-Ject Phonobox.

This is board 1 (Power Supply) of a 2 board design.

PROJECT GOALS/NOTES

- 1. Low profile circuit and transformer to fit in a 1RU rack mountable case.
- 2. 12VDC trigger input from a AV receiver is used to control power switching of the overall board to reduce phantom power draw.

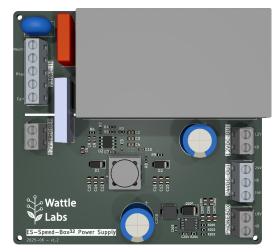
DESIGN NOTES KEY

DESIGN NOTE: Example text for informational design notes.

DESIGN NOTE: Example text for cautionary design notes.

DESIGN NOTE: Example text for critical design notes. LAYOUT NOTE: Example text for critical layout guidelines. DRAFT — Very early stage of schematic, ignore details.
PRELIM — Close to final schematic.
PROTOTYPE — Untested in its built form.
TESTED — A board with this schematic has been built and tested.

TOP VIEW



itle: ES-Speed-Box ³² - Power Supply			₩ Wattle		
Sheet: / File: ES-Speed-Box-			Labs		
Rev: 1.2	Date: 2025-07-13	ld: 1/6	KiC	Cad E.D.A. 9.0.3	

