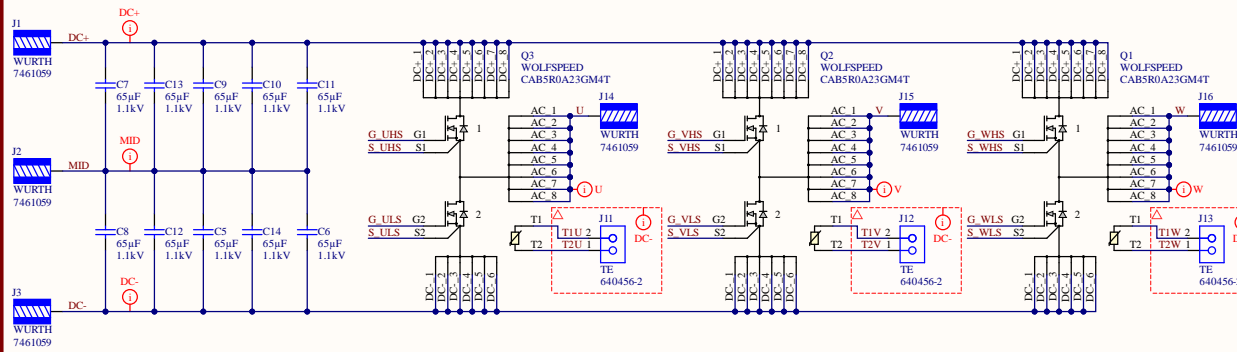
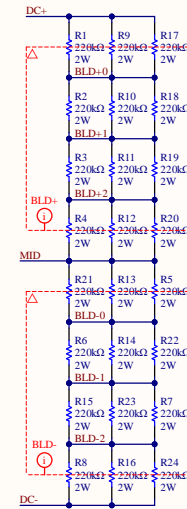


POWER STAGE

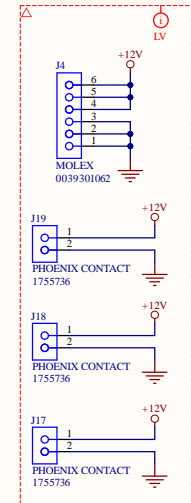


BLEED RESISTORS



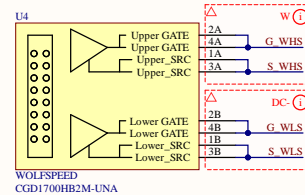
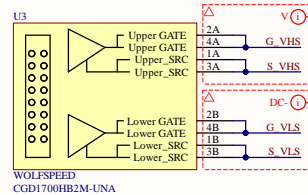
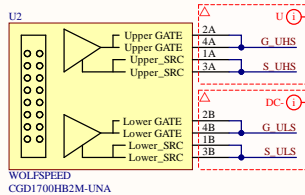
Bleed resistors also serve as balancing resistors.

FANS



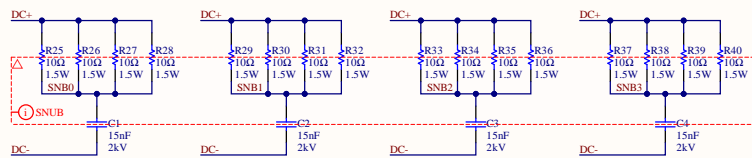
Fans require ~70W maximum power draw each. High input power supply required. Connect PSU to [J4] and fans to [J17], [J18], and [J19]. Recommended power supply CUI SDI300G-12-U-P219 or similar. Mating fan connector: PHOENIX CONTACT 1754449.

GATE DRIVERS

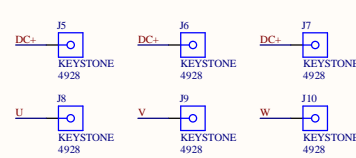


Replace J17 and J18 on gate driver with SAMTEC ESQ-102-12-G-D. Added height for acrylic sheet thickness. Use WURTH ELEKTRONIK 971070485 between gate drivers and acrylic sheet to hold gate drivers.

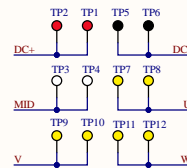
SNUBBER CIRCUITS



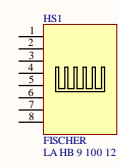
DESAT CONNECTIONS



TEST POINTS

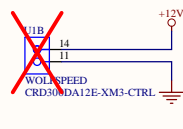
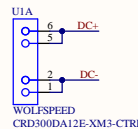


HEAT SINK



Ground the heat sink directly, if necessary.

CONTROLLER



Connect to modified CRD300DA12E-XM3 control board. On control board, replace input barrel jack connector with SAMTEC MTMM-104-14-G-S-560 to pass power from this inverter. Mate input power with [U1B]. XM control board requires modifications to voltage feedback circuit to support 1.5kV bus operation. Use WURTH ELEKTRONIK 971070485 between controller and acrylic sheet to hold controller.

MOUNTING HOLES



Use WURTH ELEKTRONIK 971070485 above board to hold acrylic sheet. Use quantity two of WURTH ELEKTRONIK 971500485 below PCB to support weight.

CHANGE LOG

REV.	DATE	DESCRIPTION
1.0	11/2024	Initial release.
1.1	02/2026	Added four additional mounting holes to the heat sink; moved thermistor connectors closer to the gate driver mating connectors.

Wolfspeed

[No Variations]

Title: **2.3KV WOLFPACK GM4 HALF-BRIDGE INVERTER**

Drawing No: **CRD200DA23N-GMA**

Date: **02/2026**

Size: **B**

Revision: **1.1**

Sheet: **1** of **1**