

PS-DC-DUAL-56xxT

345 Watt Isolated Power Supply with 56VDC and 24 or 12VDC Dual Output

Quick Start Guide



The Power Supply provides **315W** at 56VDC and is targeted for PoE applications.

The Power Supply is fully compliant with IEEE 802.3af, at, and bt PoE standards for

isolation. It provides a secondary fully-isolated 12V at 2.5A (30W) or 24V at 1.25A (30W) output for other equipment.

The 12V or 24V on the secondary output are separate model numbers.

Note: See the Install Guide for important Cautions and Warnings, Introduction, Ordering Information, Features, Specs, Connectors & LEDs, Dimensions, Power cords, Front panels, Installation, Unpacking, Mounting, Grounding, POWER OUTPUT & AC INPUT, LEDs, Fuse Replacement, Troubleshooting, Compliance, Electrical Safety Warnings, and Warranty.

Connectors and LEDs

AC Input: IEC C14 Connector; 6.3A slow blow Fuse; Power On/Off switch.

56VDC and 12 or 24VDC output: 6-Pin Terminal Block: **Pin 1:** 12Vout+ or 24Vout+ (ordering option). **Pin 2:** 12Vout- or 24Vout- (ordering option). **Pin 3:** Alarm Contacts 1. **Pin 4:** Alarm Contacts 2. **Pin 5:** 56Vout+. **Pin 6:** 56Vout-.

LEDs: Power status: **Green:** OK. Yellow blink: Will cycle through if one or more events (alarms) occur with a Blink Rate: **1** blink per 3 seconds: Fan locked (no tach). **2** blinks per 3 seconds: Fan less than 30% PWM (Pulse Width Modulation) setting. **3** blinks per 3 seconds: 12/24VDC output out of spec. **4** blinks per 3 seconds: Exceeding -25 Deg. C. **5** blinks per 3 seconds: Exceeding +75 Deg. C. If more than one alarm is set the LED will cycle through the Blink Rates one at a time, and then repeat until the alarm is cleared. The Blink Rates include a 3 second alarm delay to prevent triggering a false alarm when the fan ramps up or down.

Power Cords: Locking and non-locking line cords are available. See the Install Guide.

Front Panels: are shown and described below. See the Installation section for grounding and connection.



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PS-DC-DUAL-5612T

On / Off switch: The power on/power off switch is labeled **O** (off) / **|** (on).

FUSE: The fuse can be replaced without opening the chassis; see [Fuse Replacement](#) in the Install Guide.

AC INPUT Power connection: labeled **100 - 240VAC** 50/60 Hz; see [Connecting AC INPUT](#) below.

POWER OUTPUT Terminal Block: is labeled 56 VDC - and +, ALARM, and either 12 VDC - and + or 24 VDC - and +.

Unpacking: Carefully unpack the Power Supply. Verify you have received: one Power Supply, one Postcard, one printed Quick Start Guide, one AC Power Cord, and four Rubber Feet.

Mounting: Desktop: Attach the 4 adhesive-backed rubber feet to the bottom of the power supply for desktop mounting.

DIN Rail: The power supply ships with a rack DIN rail bracket attached. **Caution:** If mounted in a NEMA rated enclosure, either vertical direction is allowed. In a standard 19" rack, the side holes must face upward. To DIN rail mount the power supply: **1.** Ensure at least 2 inches of open space outside of at least one of the two vented sides. **2.** Hang the top of the DIN rail bracket on the DIN rail. **Caution:** The DIN Rail Spring Clip must be facing upwards. **3.** Click the bottom of the DIN rail bracket onto the DIN rail.

Grounding: Use appropriate gauge wire to connect the Phillips head Ground screw to ground following your organization's grounding procedures.

Operating Temperature - RESTRICTED ACCESS LOCATION: See the Install Guide.

WARNING HOT SURFACE DO NOT TOUCH

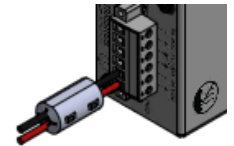


Connecting POWER OUTPUT: The Terminal Block is labeled 56 VDC - and +, ALARM, and either 12 VDC - and + or 24 VDC - and +. Use 14 AWG stranded or better wire (typ.) to connect to 56 VDC@450W. Use 20 AWG stranded or better wire (typ.) to connect to 12 VDC@30W.

Connecting AC INPUT: Connect the male end of the provided AC power cord to the power supply AC input first, and then connect the other end to a live 3-prong outlet.

PWR (Power) LED: When the bi-color green/yellow PWR LED is lit Green, the power being supplied is OK. If the bi-color green/yellow LED is blinking yellow, a fan, voltage, or temperature event is occurring (see LED Blink Rate above).

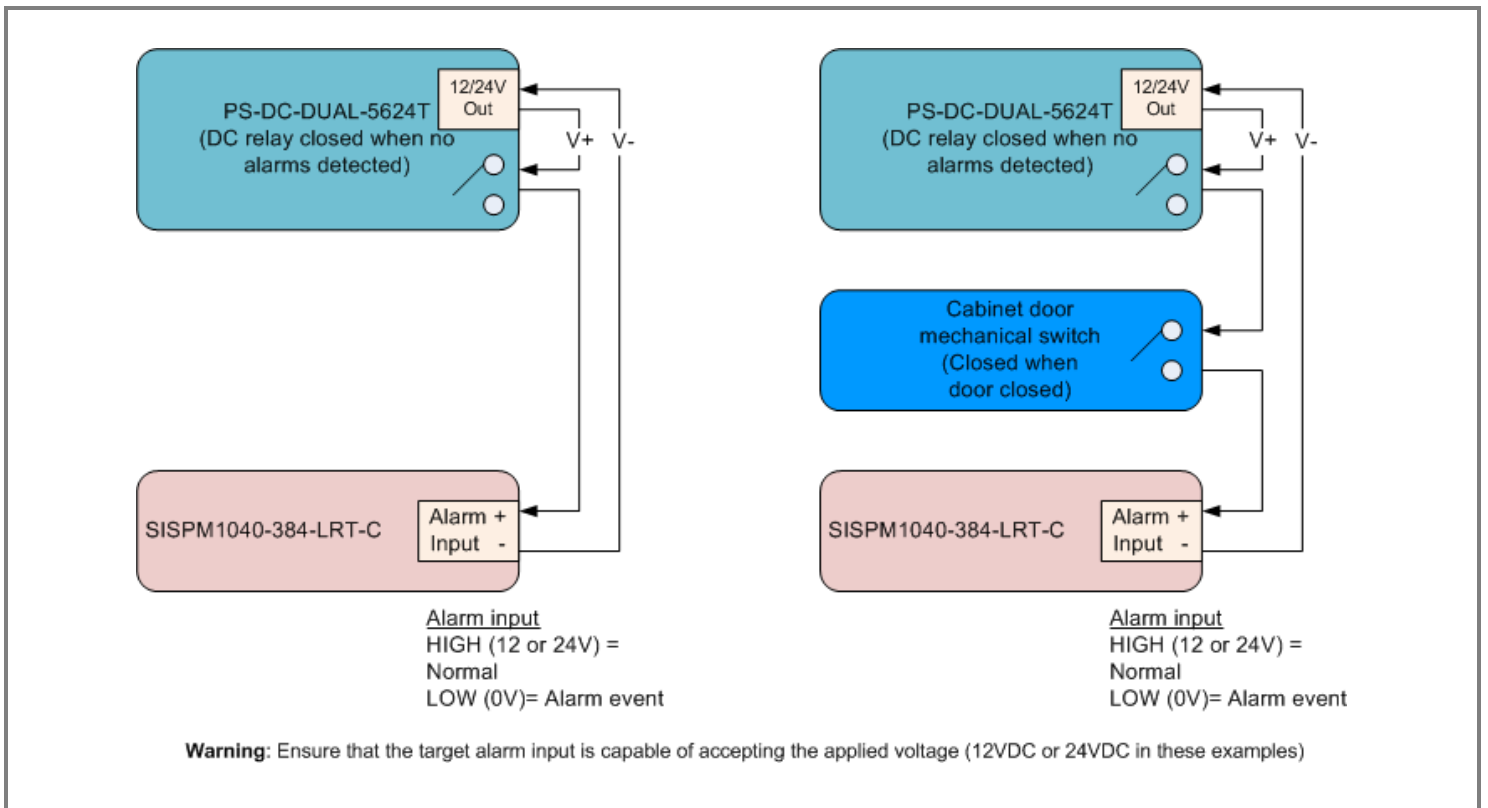
Adding TN 16210 Ferrite: For EMC reasons, install a snap-on ferrite, TN 16210, over the 12 VDC (PS-DC-DUAL-5612T) or 24 VDC (PS-DC-DUAL-5624T) output wires after installation. **1.** Open Ferrite. **2.** Snap Ferrite over the 12 VDC or 24 VDC Outputs depending on model number. **3.** Snap Ferrite in place.



Fuse Replacement: The AC INPUT is labeled 115-240VAC 50/60Hz 5.5A. The Fuse is a 5x20mm 6.3A/250V SB (slo blo) externally-accessible fuse. **Warning:** Disconnect all Power sources before servicing.

Caution: Replace fuse with same Type & Rating!

Application Example: a SISPM1040-384-LRT-C switch, Enclosure Door sensor, and PS-DC-DUAL-5624T power supply.



Troubleshooting: **1.** Check the PWR LED for status; see the PWR (Power) LED description above. **2.** Verify the AC power source is good (a live 3-prong outlet). **3.** Make sure the fuse is not blown; replace if necessary. **4.** Check the LED for On or alarm event blinking. A short or overload of the 56V will be indicated by no power LED or possibly a quick On/Off cycling. A short or overload of the 12/24V output will be indicated by “12/24VDC output out of spec” LED blink rate.

For More Information: For Transition Networks Drivers, Firmware, etc. go to the [Product Support](#) webpage (login required). For Transition Networks Manuals, Brochures, Data Sheets, etc. go to the [Support Library](#) (no login required).

Contact Us: [Tech Support](#) 24x7: US & Canada: 1-800-260-1312. Int'l: 00-1-952-941-7600. Main tel: +1.952.941.7600 | toll free: 1.800.526.9267 | fax: 952.941.2322. **Address:** 10900 Red Circle Drive | Minnetonka, MN 55343.