

5900 Power Supply

5950 Power Supply

- **Selectable 12/24 VDC Output @ 6A Continuous**
- **Built-in Battery Charger**
- **AC Fail, Battery Presence/Fail Supervision**
- **8-Zone Power Distribution Board (5950)**
- **Supervised Fire Alarm Interface (5950)**
- **Lifetime Warranty**



Description

DynaLock 5900 and 5950 Power Supply/Chargers supply a regulated 12 VDC or 24VDC at 6 Amps nominal continuous current. They're housed in hinged, locking steel enclosures capable of accommodating one or two optional 12AH lead acid rechargeable standby batteries.

Model 5950 includes a 8-zone power distribution controller featuring fused Class 2 outputs individually rated a 2A each, with selectable fail-safe, fail-secure power, or isolated dry contact signal operating modes, supervised access control and fire alarm trigger inputs, and a cascade facility, allowing controllers from two or more power supplies to be tied together for simultaneous fire alarm sequencing.

Models are UL Listed in the US and Canada, CE, FCC and Industry Canada compliance registered. See page 4 for a full breakdown of agency listings and registrations.

Features & Specifications

- Input = 120-240 VAC, 50-60Hz at 1.4 Amps Maximum
- Overall Output = 6 Amps Continuous at 12 or 24VDC
- In-Rush Capacity = 20 Amps for up to 100 ms, PF 0.35 at nominal 12/24VDC (5900)
- 8-Zone Distribution Controller with Individual 2 Amp Rated Lock Outputs and Access Control Inputs (5950)
- Supervised Fire Alarm/Access Control Interface with Selectable Latching and Reset Input (5950)
- Built-in Temperature Compensated Battery Charger
- 1.5A Maximum Charging Current
- Auto Switchover To Battery Standby Below 72.5 VAC
- Automatic Battery Load Test Every 48 Hours
- Battery Reversal Protection
- Low Battery Indication at 11.4/22.8 Volts
- Automatic Low Battery Disconnect at 10/20.2 Volts
- AC, DC and Battery Status LED's on Enclosure Door
- AC and Battery Failure CMOS Relay Outputs
- Battery Leads Included
- Key-Locked Enclosure Lid
- Enclosure Size: 13.3"W x 17.6"H x 4.3"D (338mm x 448mm x 110mm)
- Operating Temperature: 32°F to 120°F (0°C to 49°C)
- Lifetime Warranty

5900 / 5950 Power Supplies



Wiring Details - Model 5900

5900

REGULATED POWER SUPPLY CHARGER
UL/ULC LISTED AS FOLLOWS:

- UL294, CAN/ULC-60839-11-1, CAN/ULC-S533 FOR ACCESS CONTROL SYSTEM
- UL864, CAN/ULC-S527 FOR COMMERCIAL FIRE
- UL603, ULC-S318 FOR BURGLARY ALARM SYSTEM

NOTE: PLEASE REFER TO 5900 INSTALLATION MANUAL, PART NO:M5900 REV:01



Date of MFG



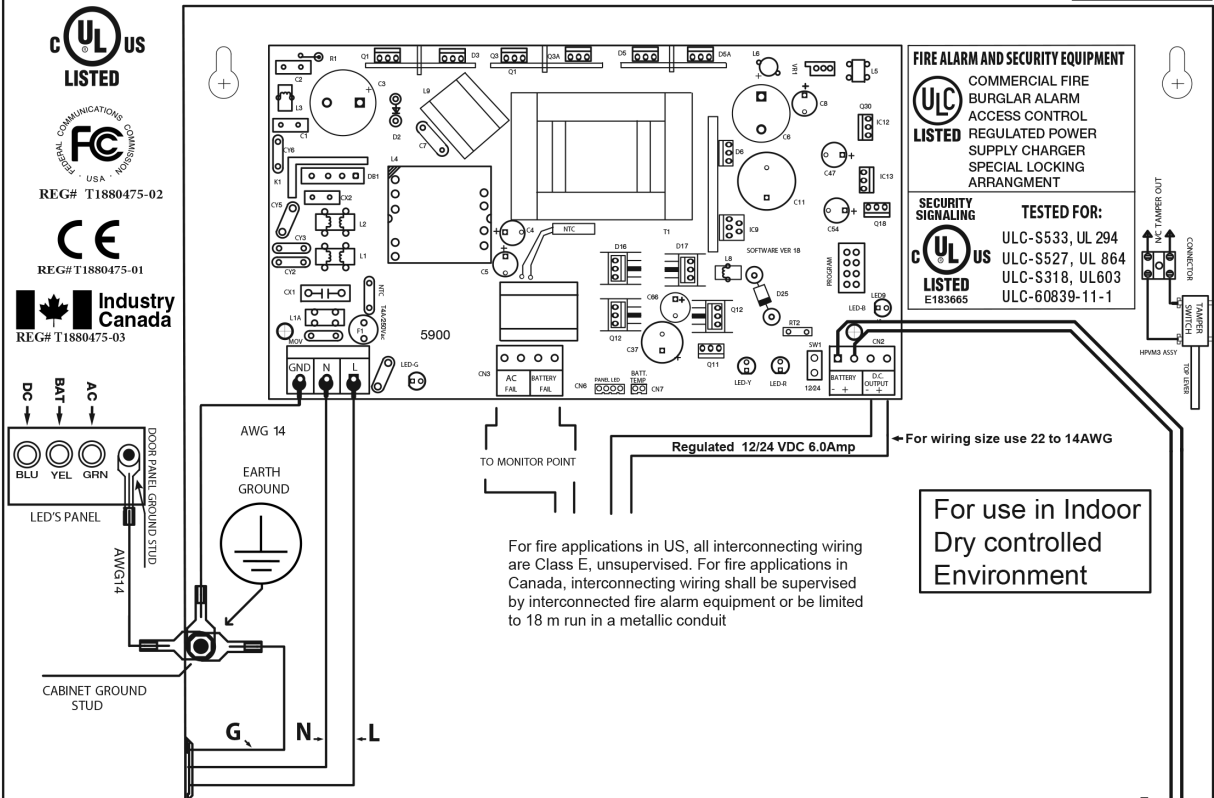
REG# T1880475-02



REG# T1880475-01



REG# T1880475-03



FIRE ALARM AND SECURITY EQUIPMENT
ULC LISTED
COMMERCIAL FIRE
BURGLAR ALARM
ACCESS CONTROL
REGULATED POWER
SUPPLY CHARGER
SPECIAL LOCKING
ARRANGMENT

SECURITY SIGNALING
TESTED FOR:
ULC-S533, UL 294
ULC-S527, UL 864
ULC-S318, UL603
ULC-60839-11-1

For fire applications in US, all interconnecting wiring are Class E, unsupervised. For fire applications in Canada, interconnecting wiring shall be supervised by interconnected fire alarm equipment or be limited to 18 m run in a metallic conduit

For use in Indoor Dry controlled Environment

G N L
AC INPUT
120-240 VAC
50-60Hz 2.5A

FIRE PROTECTIVE SIGNALING

This Product must be installed in compliance with the National Electrical Code NFPA70, as well as NFPA72 Nation a Fire Alarm Code and all applicable codes. CSA C22.1, Safety Standard for Electrical Installations, Canadian Electrical Code, Part I, CAN/ULC-S524

Battery capacity for loss of primary power at least (see table below) hours for:

OUTPUT VOLTAGE [V]	12AH BATTERY	
	STANDBY OPERATION TIME [HOURS]	LOAD (A)
12V	2	4
24V	2	4

UL294, CAN/ULC-60839-11-1: Grade 3rd

STANDBY BATTERIES TIME/VOLTAGE CHARTS

Calculation with 20% safety margin

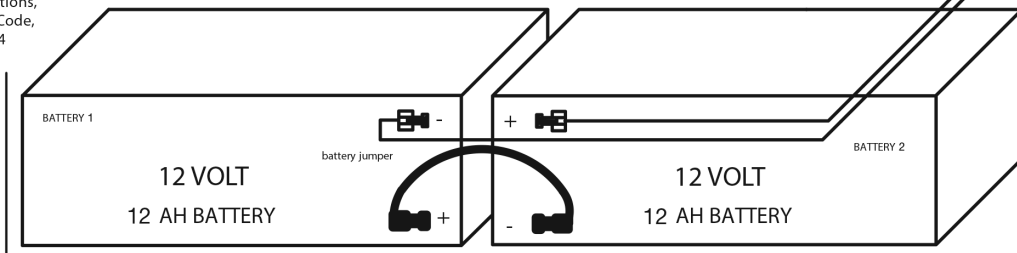
OUTPUT VOLTAGE	12AH BATTERY	
	STANDBY TIME (HOURS)	ALARM (A)
12	4	150mA
24	4	150mA

BURGLAR APPLICATIONS TO UL603

12	4	150mA	30	6.0
24	4	150mA	30	6.0

FIRE ALARM & BURGLARY APPLICATION ULC-S318

12	24
24	24



KEEP POWER LIMITED WIRING FROM NON POWER LIMITED WIRING AT LEAST 0.25" INCH APART

5900 / 5950 Power Supplies



Wiring Details - Model 5950

5950

REGULATED POWER SUPPLY CHARGER
 UL/ULC LISTED AS FOLLOWS: UL294,CAN/ULC-60839-11-1,CAN/ULC-S533 FOR ACCESS CONTROL SYSTEM
 UL603, ULC-S318 FOR BURGLARY ALARM SYSTEM
 NOTE: PLEASE REFER TO 5950 INSTALLATION MANUAL,



Date of MFG

PART NO:M5950 VER:01



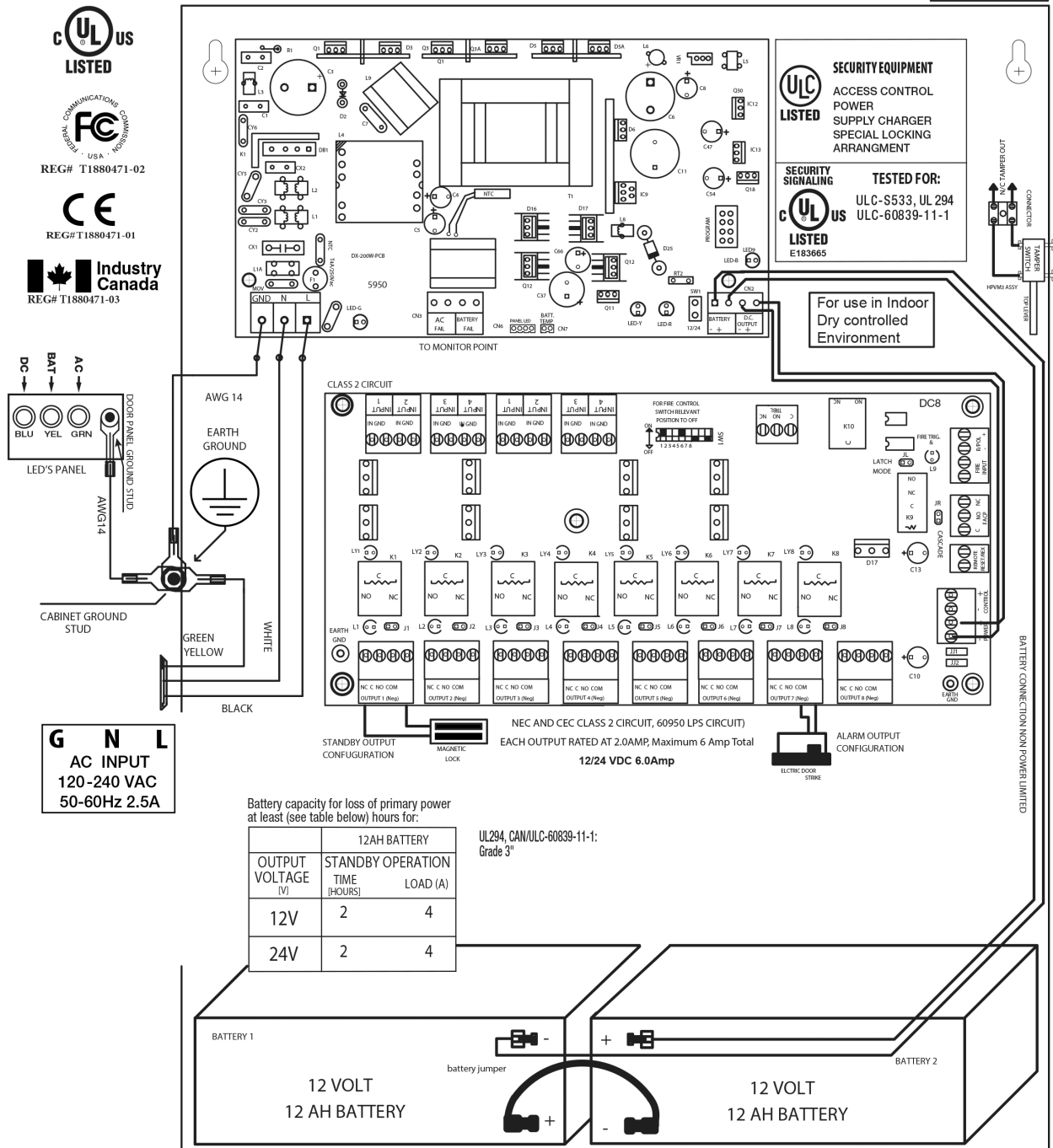
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REG# T1880471-03

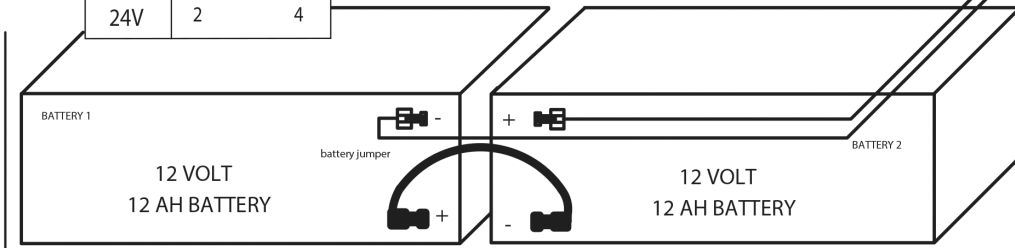


G N L
 AC INPUT
 120-240 VAC
 50-60Hz 2.5A

Battery capacity for loss of primary power at least (see table below) hours for:

OUTPUT VOLTAGE (V)	12AH BATTERY	
	STANDBY OPERATION TIME (HOURS)	LOAD (A)
12V	2	4
24V	2	4

UL294, CAN/ULC-60839-11-1:
 Grade 3¹



KEEP POWER LIMITED WIRING FROM NON POWER LIMITED WIRING AT LEAST 0.25" INCH APART

Options

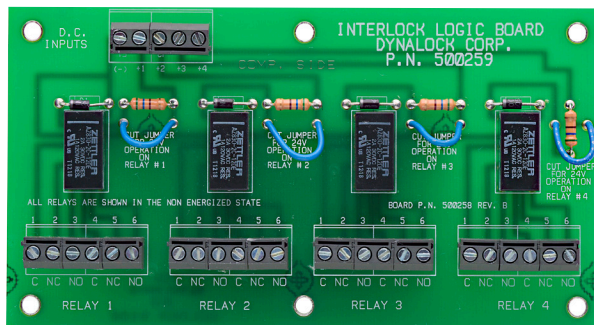
- BBU1-12** BATTERY BACK-UP - 12 AH @ 12VDC, 1 battery
- BBU2-12** BATTERY BACK-UP - 12 AH @ 24VDC, 2 batteries
- PC** POWER CORD - Six foot, 3-wire plug-in line cord
- TS1** SINGLE TAMPER SWITCH KIT - Supervised NC contacts monitor lid opening.
- TS2** DUAL TAMPER SWITCH KIT - Dual Supervised NC contacts monitor lid opening & enclosure bottom tamper.

Accessories

- 500259** INTERLOCK LOGIC BOARD - Accessory controller incorporating four independently triggerable 12/24 VDC, DPDT relays. Facilitates sequencing control of interlocks comprised of 2 or 3 magnetically locked doors. Multiple Interlock Logic Boards may be interconnected to support interlock systems involving more than 3 doors. Contact a DynaLock Sales Engineer for expert assistance in selecting interlock system components and request a price quotation for a Custom System Wiring Diagram, should one be required.

Supplied with double-sided adhesive mounting tape. May be mounted inside the 5900/5950 Power Supply enclosure (if no back-up batteries are installed), or remotely wired.

Interlock Logic Board Dimensions: 6"W x 3.25H x .75"D (152mm x 83mm x 19mm)
 Relay Contact Rating: 2A @ 30VDC
 Relay Current Draw: 35mA @ 12 or 24VDC Each



UL Listing Standards & Agency Registrations

- UL294** Access Control System Units
- UL603** Power Supplies For Use With Burglar Alarm Systems (5900)
- UL864** Control Units and Accessories For Fire Alarm Systems (5900)
- ULC-S318** Power Supplies For Burglar Alarm Systems - Canada (5900)
- CAN/ULC-S527** Control Units For Fire Alarm Systems - Canada (5900)
- CAN/ULC-60839-11-1** Alarm and Electronic Security Systems - Canada
- CAN/ULC-S533** Egress Door Securing and Releasing Devices - Canada
- CE** European Compliance
- FCC** U.S. Federal Communications Commission
- Industry Canada** Canadian Registration



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