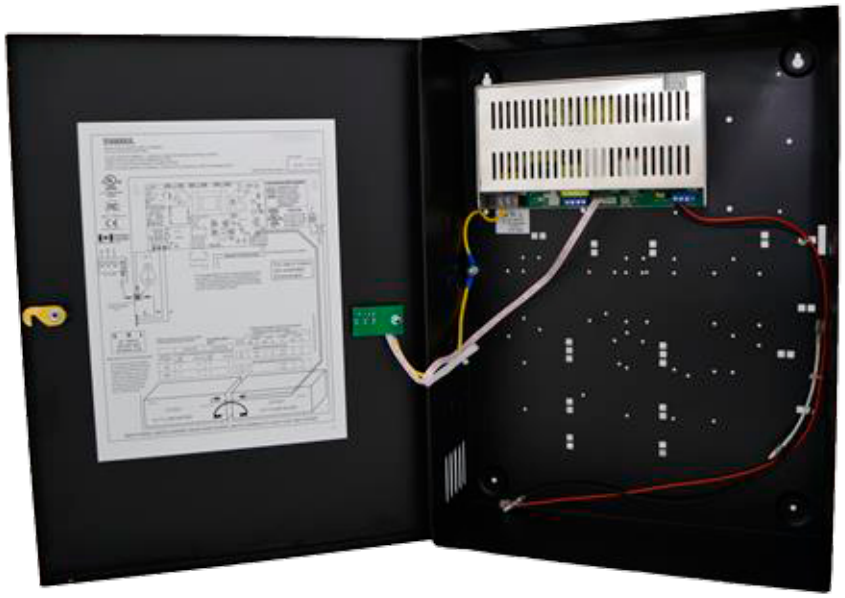
DX600UL

6 Amp Regulated Power Supply / Charger



Key features:

- Selectable 12VDC / 24VDC regulated output, 6A continuous
- 120 / 240 VAC input, 50 / 60Hz
- Built-in 1.5A charger for sealed lead-acid or gel batteries
- Accommodates one or two 12Ah or 17.2Ah batteries
- Automatic battery load test every 48 hours
- Overload and short circuit protection on DC output
- AC fail and battery fail trouble relays
- Listed for access control, commercial fire and burglary alarm

*Design and specifications are subject to change without notice - Version 2026-11-03

DX600UL- 6 Amp Regulated Power Supply / Charger

Power input & outputs

Input Voltage
120 / 240 VAC

Input frequency
50 / 60Hz

Max input current
2.5A

Output voltage
12VDC / 24VDC regulated, selectable (SW1)

Output current
6A continuous

Power Factor
0.6 PF

Ripple
50 mVp-p max

Max output voltage
13.20VDC / 26.40VDC

Output circuit
Class E, unsupervised

Output protection
Overload and short circuit

Output wire size
22 to 14 AWG

Battery & charger

Battery charger
Built-in, sealed lead-acid or gel

Charge current
1.5A max (not part of max output rating)

Charging voltage
13.8V / 27.6V nominal

Supported batteries
1 or 2 × 12Ah or 17.2Ah

Automatic battery switchover
On AC failure or below 72.5VAC

Low battery indication / disconnect
11.40V / 22.80V – 10V / 20.2V

Battery load test
Every 48h, with result indication

Battery presence detection
Within 10 seconds

Reverse battery protection
Yes

Battery charging leads
Included

Environment, mechanical & certifications

Operating temperature
0°C to +49°C

Installation type
Indoor protected area, controlled environment

Enclosure dimensions
338 × 448 × 110 mm (12Ah) / 356 × 472 × 110 mm (17.2Ah)

Board dimensions
195 × 110 mm

Access control listings
UL 294, CAN/ULC-S533, CAN/ULC-60839-11-1

Fire alarm listings
UL 864, CAN/ULC-S527

Burglary alarm listings
UL 603, ULC-S318

EMC
FCC, Industry Canada, CE

Performance ratings

UL 294 Destructive Attack
Level I

UL 294 Endurance
Level IV

UL 294 Line Security
Level I

UL 294 Standby Power
Level III (12Ah: output limited to 4A, or 17.2Ah)

CAN/ULC-60839-11-1
Grade 3 (trouble relays to a Grade 3 control unit)

Standby – access control (UL 294)
2h at 4A (12Ah) / 2h at 6A (17.2Ah)

Standby – burglary (UL 603)
4h at 150mA + 30 min alarm at 6A (12Ah)

Monitoring & indication

Trouble relays
AC Fail (within 60 s), Battery Fail – N/C, open = fault

Relay rating (CMOS)
30VDC, 60mA, 16 ohms

LED indicators
Green (AC), Yellow (Battery), Blue (DC), Red (test)

General

Fire notification appliances
Not intended to power horns, strobes & bells

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DX600UL- 6 Amp Regulated Power Supply / Charger

Connection diagram

DX600UL

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 DX600UL INSTALLATION MANUAL, PART NO:PX6000 REV:01

DATE OF MFG:

PART NO:PX6001 REV:01

c UL us LISTED
I.T.E. POWER SUPPLY
E220695

REG# T1880475-02

REG#T1880475-01

Industry Canada
REG# T1880475-03

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

SECURITY SIGNALING
c UL us LISTED 21A6
TESTED FOR:
ULC-S533, UL 294
ULC-S527, UL 864
ULC-S318, UL603
ULC-60839-11-1

DX600

DC BAT AC
BLU YEL GRN
LED'S PANEL
DOOR PANEL GROUND STUD
AWG14
AWG 14
EARTH GROUND
CABINET GROUND STUD
G N L

TO MONITOR POINT
Regulated 12/24 VDC 6.0Amp
For wiring size use 22 to 14AWG

For use in Indoor Dry controlled Environment

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

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:

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

	12AH BATTERY		17.2AH BATTERY	
OUTPUT VOLTAGE [V]	STANDBY OPERATION TIME [HOURS]	LOAD (A)	STANDBY OPERATION TIME [HOURS]	LOAD (A)
12V	2	4	2	6
24V	2	4	2	6

STANDBY BATTERIES TIME/VOLTAGE CHARTS
Calculation with 20% safety margin

OUTPUT VOLTAGE	12AH BATTERY STANDBY TIME [HOURS]	12AH BATTERY STANDBY (A)	12AH BATTERY ALARM [MIN.]	12AH BATTERY ALARM (A)	17.2AH BATTERY STANDBY (A)	17.2AH BATTERY ALARM [MIN.]	17.2AH BATTERY ALARM (A)
BURGLAR APPLICATIONS TO UL603							
12	4	150mA	30	6.0	250mA	3.0	6.0
24	4	150mA	30	6.0	250mA	3.0	6.0
FIRE ALARM & BURGLARY APPLICATION ULC-S318							
12	24				150mA	3.0	6.0
24	24				150mA	3.0	6.0

BATTERY 1
12 VOLT
12/17.2 AMP BATTERY
battery jumper
BATTERY 2
12 VOLT
12/17.2 AMP BATTERY

BATTERY CONNECTION NON POWER LIMITED

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

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