FEBURARY 13 2018 PART NO:PX6000 Ver.01

DX600UL, DX600ULPD8ECB, DX600ULPD16ECB, DX600ULMOM8ECB, DX600ULACM8ECB.

Power Supply / Charger

Description

The DX600UL series of power supply/charger supplies a total of 6 amp nominal continuous supply current @ 12/24VDC outputs. It is installed in a large sheet steel enclosure capable of accommodating one or two 12AH or 17.2AH lead acid rechargeable batteries. The power supply models: DX600UL,DX600ULPD8ECB,DX600ULPD16ECB have been evaluated for: CAN/ULC-S527,UL864,ULC-S318,UL603,UL294, CAN/ULC-60839-11-1,CAN/ULC-S533. The above Power supplies are not intended to power Fire Notification Appliances(Horns,Strobes & Bells). The power supply models: DX600ULACM8ECB, DX600ULMOM8ECB have been evaluated for: UL294, CAN/ULC-60839-11-1,CAN/ULC-S533.

General Specifications:

- 1. Input = 120-240VAC 50-60Hz, 2.5 Amp maximum, fuse at 6 Amp
- 2. Output 6 Amps continuous supply current PF 0.6 at nominal 12/24 VDC.
- 3. Built-in dedicated charger for sealed lead acid or gel cell type batteries.
- 4. Maximum battery charging current 1.5Amps (not part of the max output current rating).
- 5. Automatic switch over to stand-by battery upon AC failure or below 72.5VAC.
- 6. Battery presence detection within 10 seconds.
- 7. Temperature Compensated Battery Charger. (EN54-4 only, not UL evaluated)
- 8. Battery Charger Monitor.
- 9. Battery load test every 48hr.
- 10. Battery test result indication.
- 11. Battery Reversal protection.
- 12. Low Battery indication at 11.40/22.80 Volts.
- 13. Low Battery disconnect at 10/20.2 Volts.
- 14. Low Battery, Battery disconnect, No Battery presence, battery charger trouble reporting. (See FAULT TABLE)
- 15. AC input indication by Green LED. (LED on when AC is present).
- 16. AC Fault CMOS Relay contact for AC failure
- 17. LEDs display on enclosure door (Green, Yellow, Blue).
- 18. DC output indication by Blue LED, on board and enclosure.
- 19. Overload and short circuit protection on DC output.
- 20. Battery charging leads included.
- 21 Board Dimension: 195mm x 110mm
- 22. Enclosure Dimension: 338 x 448 x 110mm(HP346 for 12Ah Battery)
- 23. Enclosure Dimension: 356 x 472 x 110mm(HP347 for 17.2Ah Battery)

Technical Specification:

Output Voltage Output Amperage Ripple	12/24 Vdc Regulated. Class E, unsupervised 6 Amp 50 mVp-p max
Charging Current Battery Charging Voltage	1.5A Max, and not part of max output rating 13.8V/27.6V Nominal
Operating Temperature	0deg.C to 49deg.C

Performance Ratings

UL 294 Performance Levels:

Model	Product Type	Line Security	Destructive Attack	Endurance	Standby Power
DX600ULMOM8ECB DX600ULACM8ECB DX600ULPD16ECB DX600ULPD8ECB DX600UL	Power Supply	I	I	IV	III (when used with 12Ah battery "output is limited to maximum 4 Amps" III (when used with 17.2Ah battery

CAN/ULC-60839-11-1 Performance Grades:

Model	Product Type	Grade	Grade Achievement
DX600ULMOM8ECB DX600ULACM8ECB DX600ULPD16ECB DX600ULPD8ECB DX600UL	Power Supply	3 (when used with 12Ah battery) "output is limited to maximum 4 Amps" 3 (when used with 17.2Ah battery)	Connect AC & Battery Trouble Outputs to a Grade 3 Control Unit, to achieve Grade 3.

LED Indications

1. Green LED - AC indicator

- a. On when AC present.
- b. The AC fail Relay activates (opens) within 60 seconds after AC failure.

2. Blue LED - DC Power indicator

 Powered directly from the power supply DC output and indicates output is present.

3. Yellow LED – Battery Charging and Fault indicator

a. The Yellow LED flashing indicates the battery is charging and is also used to indicate various Fault conditions. See the Fault Condition and Indication Table for details.

4. Red LED -Battery/Charger test Indicator for Pass or Failure.

a. The Red LED indicates a Battery test Failure or a Battery charger failure in conjunction with the Yellow LED to indicate other Fault Conditions. See the Fault Conditions and Indication Table for details.

Relay Outputs:

Output	Output Type	Description
AC FAIL	NORMALLY CLOSED OPEN = FAULT	TRIPS WITHIN 60 SEC. AFTER AC FAILS CMOS RELAY RATING: 30VDC 60mA 16 OHMS
BATTERY FAIL	NORMALLY CLOSED OPEN = FAULT	BATTERY PROBLEM CMOS RELAY RATING: 30VDC 60mA 16 OHMS

Fault Condition & Indications:

FAULT	LED-G	LED-Y	LED-R	BATT RELAY	AC RELAY	LED-B
BATTERY REVERSED OR NOT CONNECTED		ON		OPEN		
BATTERY LOW		ON		OPEN		
BATTERY DISCONNECTED		ON		OPEN		
BATTERY TEST FAIL		ON	5 RAPID FLASHES STOP 1 SECOND REPEAT UNTIL BATTERY IS REPLACED	OPEN		
BATTERY TEST OK		OFF	3 FLASHES 1 SEC ON/OFF			
CHARGER FAIL			10 RAPID FLASHES 2 SECONDS STOP AND REPEAT UNTIL OK	OPEN		
AC FAIL	OFF				OPEN WITHIN 60 SEC	
DC FAIL/OVERLOAD						OFF

Battery Operating Values

Parameter	Output	Description
Battery Disconnect voltage	10/20.2V	When AC is off, the battery is
		disconnected when the battery voltage drops below this value.
		The battery is only reconnected when the AC is restored.
Minimum battery voltage to	11.50V	Red Led Flash 1 sec ON/OFF during
pass battery test	23.0V	2 minutes testing. Battery Fail 5 rapid
		flashes and 1 sec pause. Replace
		Battery
Low Battery Voltage	11.40V	If the output voltage drops below this
Warning	22.80V	value a voltage low warning is generated.
9		See Fault Conditions and Indication table.

Optional Temperature Compensated Charging Voltages for EN-54 only, not evaluated by UL

	•	
Temperature	Charger Voltage	Charger Voltage
Degrees Celsius	12 Volts	24 volts
-10	14.1	28.20
0	14.0	28.00
10	13.9	27.80
20	13.75	27.50
30	13.65	27.30
40	13.50	27.00
50	13.40	26.80
>50	Charger off	Charger off

<u>Installation Instructions</u>

This power supply should be installed in compliance with National Electrical Code, NFPA70 as well NFPA72 National Fire Alarm Code, CSA C22.1, Safety Standard for Electrical Installations, Canadian Electrical Code, Part I, CAN/ULC-S524, and all applicable Local Codes. Installation to be performed by suitably qualified personnel. The power supply shall not be installed in the fail secure mode unless permitted by the local authority having jurisdiction, and shall not interfere with the operation of Listed panic hardware.

- 1 Mount the power supply in the desired location using the 4 mounting holes.

 NOTE: For use in Indoor Protected Area with Controlled Environment only.

 Do not Install Power Supply on Exterior Doors.
- With the Mains power disconnected, connect the leads to the AC Input Terminal Block, respecting the wiring phase and polarity:
 Ground/Earth=Green/Yellow, Neutral = Blue (White), Live =Black (Brown). This equipment must be connected to the 120-240 Volt Mains via a readily dedicated accessible external disconnect device with maximum 15 Amp branch protection. Select the operating output DC voltage 12/24 with the jumper SW1. SW1 ON=12VDC, SW1 OFF=24VDC.
- 3 Do not connect the battery at this time.
- 4 Switch ON the AC. Green LED will come ON indicating AC is present and the AC Fault Relay will be energized "ON" (closed). When the AC is off the AC Fault Relay will drop open within 60 seconds (Factory set) activating the CMOS output contact "AC Fail". Connect this output to relevant monitoring devices.
- 5 Verify the DC output voltage is correct = 13.20VDC or 26.40VDC max. Blue DC LED will be ON to indicate DC output is OK.
- 6 Yellow LED will be on and the BAT FAULT CMOS relay open indicating the Battery is not present or connected with reversed polarity.
- 7 Connect the Battery or Batteries respecting the polarity. Battery shall not be connected if AC is not present first.
- 8 If the battery is connected with the correct polarities the Yellow LED will turn OFF (See Fault Conditions and Indications Table). Within one minute the Battery Fault Relay will restore and the Yellow LED will flash once every 2 seconds.
- 9 If the battery is connected reverse polarity, the Yellow LED will be ON. (See the Table Fault). The CMOS relay will open indicating Battery Fault. Connect this output to relevant monitoring devices.
- 10 Connect the devices to be powered to the output terminals marked "Vo- Vo+".
- 11 See below for installation of PD4ECB, PD8ECB, MOM8ECB and ACM4ECB need 2 EOLR Resistors(2K2) provided. See Fig 1 & Fig 2.
- 12 If Tamper Switch is required use part # TSW1-02 or TWS2-02, see Fig 3.
- 13 Use 2K2 EOLR (end of line resistor) Part #EORL-PWX2K2
- 14 Connect the fault relays to FACP or ACP for trouble indication.
- 15 Secure the enclosure with the screw or with the Key Lock if provided.

PD8ECB & PD16ECB(There're Two PD8ECB)

Description:

The PD8ECB and the PD8ECB are distribution boards used for Fire Alarm, Bulglary, Access Control and Egress Doors installation. The PD8ECB and PD8ECB board have 8 and 16 outputs each rated max. 2.0Amp(max. total current 6 Amp), each with electronic overcurrent protection set at 2.5 Amp.

Installation:

Connect the devices to be powered to the output terminals marked " - DC +" 1 to 8 of each PD8ECB and 1 to 8 of each PD16ECB(Made with Two PD8ECB) boards. Red Led indicates output is live. Red Led OFF indicates output is disabled due to overload or short, therefore the DC fail relay will open. To reset the output, remove the Load or the Short and investigate the cause of the trouble. Secure the enclosure with the screw and/or with the Key Lock if provided. CMOS relay rating: 30Vdc, 60mA. 16ohms contact resistence.

MOM8ECB

Description:

The MOM8ECB is a distribution controller to be used with Access Control System, and Egress Doors, It provides 12/24 vdc through 8 electronic over-current protected outputs, each rated max. 2 amp(max. total current = 6 amp), each with electronic overcurrent. The 8 outputs will switch ON or OFF security devices such as Magnetic Locks, Door Strikes, etc. It is to be connected to FACP or ACP via a NO or NC configurable contact input with EOLR 2.2kohm. (Part #EORL-PWX2K2) Also it has another input for Reversed Polarity triggering for older version of Fire Alarm Control Panel. The MOM8ECB has 2 status relay output, one with Dry Contact "Form C" to indicate output status and One Dry Contact "Form C" to indicate DC Failure on any of the 8 outputs.

Installation:

1. Output Connections

There are 8 selectable outputs suitable for FAIL Safe config and FAIL SECURE config.

- 1) For Fail Safe operation connect the device positive to DC STANDBY OUPUT (+) on the MOM8ECB. DC power is present in normal condition and will switch OFF when the FACP/ACP or Rev. Pol input is triggered. Fail Safe operation devices such as Magnetic Lock should be connected to this output as show on Fig. 1.

 2) For Fail Secure operation connect device positive to DC ALARM OUTPUT (+) on the MOM8ECB. DC power is not present in normal condition and will switch ON when the FACP/ACP input is triggered. Fail Secure Operation Devices such as Door Strikes should be connected to this output.
- 3) In either configuration connect the negative of the device to the NEGATIVE terminal CN8

2. Fire Alarm and Access Control interface connection

Normally Open (NO), Normally Closed (NC) input or Polarity Reverse (Rev. Volt.) input from the FACP/ACP are available to trigger the MOM8ECB operation. Connect the positive (+) and Negative (-) from the FACP/ACP to the REV. VOLT terminals observing the polarity,(polarity is referenced in alarm condition) or connect the NO or NC from the FACP/ACP output to the "Fire Trigger Terminals". Install a 2K2 Ohms (EOL) PWX2K2 resistor at the FACP/ACP as show in Fig 1. Note: No ELOR on Rev. Pol.

3. Engineering RESET/REX Input

This option is avaliable when the Jumper *JL* is removed(JL OFF). This will cause the MOM8ECB to latch upon receiving alarm from the FACP or ACP with this option in place. When the FIRE/ACP TRIGGER resets, MOM8ECB will only reset by activating the RESET/REX input.

JL ON will cause the unit to follow the FIRE/ACP TRIGGER. Install the 2K2 EOLR (end of line resistor) #EORL-PWX2K2 at the key Switch or Push Button to perform This Operation.

4. Relay Output

- a) DC Fail: DC output fail at one or more of the 8 outputs will cause the (DC FAIL)
 Trouble relay to open (De-energize). Connect this output to monitoring device. (28Vdc, 300mA)
- b) Status Output: The **FACP or ACP** or Rev. Pol input will cause the dry contact Relay "Form C" to open (de-energize). Connect this output to monitoring device. (28Vdc, 300mA)

5. Cascade Connection

Two(2) or more MOM8ECB units(maximum 20) can be connected together as follow: Connect the status output relay **C** and **NC** terminals from the 1st unit to the **REMOTE RESET INPUT** of the 2nd unit(not polarity sensitive) and remove the **JR** of the 1st unit. Install EOLR(2K2) on 2nd unit Fire Trigger terminal. If If a 3rd unit needs to connected the JR of the 2nd unit must be removed and so on for any additional unit. Ref to Fig.1.

NOTE: If Latch Mode is used, only **JL** jumper on the first unit must be removed. Engineering Reset will be performed from the 1st unit.

6. MOM8ECB LED Indication:

LD1 to LD8 RED LED when ON indicates that the output is ON (enable). When OFF, the output is OFF, NO DC present (disable). The cause could be Overload or short on the output. Note: all 8 outputs are current limited set at 2.5Amp, rated max 2.0Amp. LDF Fire Green Led is normally OFF. It will switch on upon receiving an Input from the FACP/ACP. This led will stay ON following the status of the FACP/ACP input. IF JL was removed this LED will stay ON until the manual RESET circuit resets.

ACM8ECB

DESCRIPTION:

The ACM8ECB is a distribution controller to be used with card Access Control, Egress Doors. It provides 12/24Vdc through 8 outputs rated 2.0A(max. 6A total) each with electronic over-current protection set at 2.5A. The 8 outputs will switch ON or OFF security devices such as Magnetic Locks, Door Strikes, etc. It is connected to FACP or ACP via a NO or NC configurable contact input using 2K2 EOLR(Part #EORL-PWX2K2). Also it has input for Reversed Polarity triggering. The ACM8ECB has 2 relay outputs, one Dry Contact "Form C" to indicate output status, and one Dry Contact "Form C" to indicate DC failure on any of the 8 outputs, due to overcurrent or short.

Installation:

1. Output Connections

There are 8 selectable outputs suitable for FAIL Safe config and Fail Secure config.

- a) For Fail Safe Operation connect the positive (+) lead of the device to normally Closed (NC) and the negative lead to COM "Neg", connector CN1 to CN8. DC power is present in normal condition and will switch OFF when FACP/ACP or Reverse Reverse Polarity input is triggered. Fail Safe operation devices such as, Magnetic Lock should be connected to this output as show on Fig. 2.
- b) For Fail Secure operation connect device positive(+) lead to Normally Open (NO) DC power is not present in normal condition and will switch ON when the FACP or ACP or Reverse Polarity input is triggered. Fail Secure operation devices such as Door Strikes should be connected to this output.

2. Fire Alarm and Access Control Interface

Normally Open (NO), Normally Closed (NC) input or Polarity Reverse (Rev. Volt.) input are available to trigger the ACM8ECB operation. Connect the positive(+) and Negative(-) from the FACP or ACP to the REV. VOLT terminals observing the polarity, (polarity is referenced in alarm condition) or connect the NO or NC from the FACP or ACP output to the "Fire Trigger "terminals. Install PWX2K2 2k2 (EOLR) resistor at the FACP or ACP as show in Fig. 1. Note: No ELOR on Rev. Pol.

3. Engineering RESET/REX Input

This option is avaliable when the Jumper *JL* is removed(JL OFF). This will cause the ACM4ECB to latch opon receiving Input from the FACP or ACP with this option in place and when the FIRE/ACP TRIGGER resets, ACM8ECB will only reset by activating the RESET/REX input.

JL ON will cause the unit to follow the FIRE/ACP TIGGER. Install PWX2K2 2.2K (EOLR) resistor at the Key Switch or Push Button to perform this operation.

4. Relay Output

- a) DC Fail: When one or more of the 8 outputs fail due to over current or short circuit condition, the DC fail Relay will open. Connect this output to monitoring device. (28Vdc, 300mA)
- b) Status Output: When the **FACP or ACP** input activates this will cause the dry contact Relay Form "C" to change state (de-energize). Connect this output to monitoring device. (28Vdc, 300mA)

5. Cascade Connection

Two(2) or more ACM8ECB units can be connected together as follow: Connect the Status Output relay **C** and **NC** terminals from the 1st unit to the **REMOTE RESET/REX INPUT** of the 2nd unit(not polarity sensitive) and remove the **JR** of the 1st unit. Install EOLR(2K2) on 2nd unit Fire Trigger terminal. If 3rd unit is connected, the JR of the 2nd unit must be removed, and so on for any additional unit. Ref to Fig.1.

NOTE: If Latch Mode is used, only **JL** jumper on the first unit must be removed. Engineering Reset will be performed from the 1st unit.

6. ACM8ECB LED INDICATION

L1 to L8 are the Output RED Led, when **ON** indicates DC is present (enable), and the Output relays are energized.

When **OFF**, Relay is de-energized and the output is **OFF**, NO DC present (disable). LD1 to LD4 Yellow LED indication denotes overload or short on the output. The outputs are **Current limited set @ 2.5Amp**, rated at max **2.0Amp**.

L9 Green Led is normally OFF. It will switch on upon receiving an alarm from the FACP/ACP. This LED will stay ON following the status of the FACP/ACP input. If JL was removed this LED will stay ON until the manual RESET circuit resets.

7. Access Control Panel (ACP)Trigger input.

There are 8 inputs, CN10 through CN13 each with four terminals, two IN and two GND. Activation of the inputs is achieved by shorting IN and GND terminals of the respective inputs.

8. FACP/ACP Input Programming

Selectable Output to be Irrelevant on Fire Activation

To have the output relay activation follow the FACP or ACP input place the DIP switch corresponding to desired relay to the "OFF" position. In the "ON position, the correspondent output relay will not be effected by the FACP, ACP or Rev. Pol input.

9. Isolated Output Configuration

If any of the outputs requires to be Isolated DRY CONTACT, remove the respective Jumper J1 through J8 to achieve this configuration, Form "C",(C NO NC) available to connectors CN1 through CN4. This connection is now isolated from the internal power source. Relay Rating: 28Vdc, 2A. PF 0.6

c

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 DATE OF MFG: UL603, ULC-S318 FOR BURGLARY ALARM SYSTEM NOTE: PLEASE REFER TO DX600UL INSTALLATION MANUAL, PART NO:PX6000 REV:01 PART NO:PX6001 REV:01 FIRE ALARM AND SECURITY EQUIPMENT LISTED <u>₹</u> 5000 € I.T.E. POWER SUPPLY COMMERCIAL FIRE (+)E220695 **BURGLAR ALARM** ACCESS CONTROL LISTED REGULATED POWER SUPPLY CHARGER SPECIAL LOCKING 000 ARRANGMENT SECURITY SIGNALING REG# T1880475-02 9+ 🔤 **TESTED FOR:** ULC-S533, UL 294 ULC-S527, UL 864 **4**0 ULC-S318, UL603 LISTED ULC-60839-11-1 LED-R 📵 Industry Canadá DX600 4000 0000 0 PANEL LED TEMP AWG 14 For wiring size use 22 to 14AWG Regulated 12/24 VDC 6.0Amp TO MONITOR POINT FARTH GROUND For use in Indoor LED'S PANEL Dry controlled For fire applications in US, all interconnecting wiring AWG1 are Class E, unsupervised. For fire applications in Environment Canada, interconnecting wiring shall be supervised by interconnected fire alarm equipment or be limited to 18 m run in a metallic conduit CABINET GROUND STUD N. G L BATTERY CONNECTION NON G N STANDBY BATTERIES TIME/VOLTAGE CHARTS Calculation with 20% safety margin AC INPUT Battery capacity for loss of primary power 12AH BATTERY 17.2AH BATTERY at least (see table below) hours for: UL294, CAN/ULC-60839-11-1: 120-240 VAC STANDRY STANDRY Grade 3" 50-60Hz 2.5A [MIN.] [MIN.] (A) (A) 12AH BATTERY POWER LIMITED 17 2AH BATTERY **BURGLAR APPLICATIONS TO UL603** FIRE PROTECTIVE SIGNALING OUTPUT STANDBY OPERATION STANDBY OPERATION 12 150mA 30 6.0 250mA 6.0 3.0 **VOLTAGE** TIME TIME LOAD (A) LOAD (A) This Product must be installed HOURS 24 30 250mA 6.0 3.0 in compliance with the National 2 4 2 6 Electrical Code NFPA70, as well 12V FIRE ALARM & BURGLARY APPLICATION ULC-S318 as NFPA72 Nation a Fire Alarm 12 24 150mA 3.0 6.0 Code and all applicable codes. 2 4 2 24V 6 24 CSA C22.1, Safety Standard 24 3.0 6.0 for Electrical Installations, Canadian Electrical Code, Part I, CAN/ULC-S524 BATTERY 1 -64

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

battery jumper

12 VOLT

12/17.2 AMP BATTERY

BATTERY 2

12 VOLT 12/17.2 AMP BATTERY

DX600ULPD8ECB

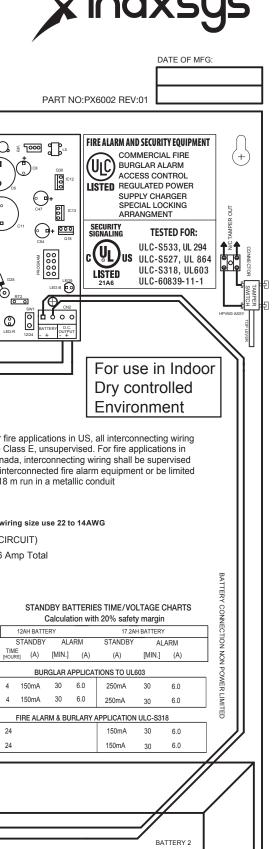
UL/ULC LISTED AS FOLLOWS:

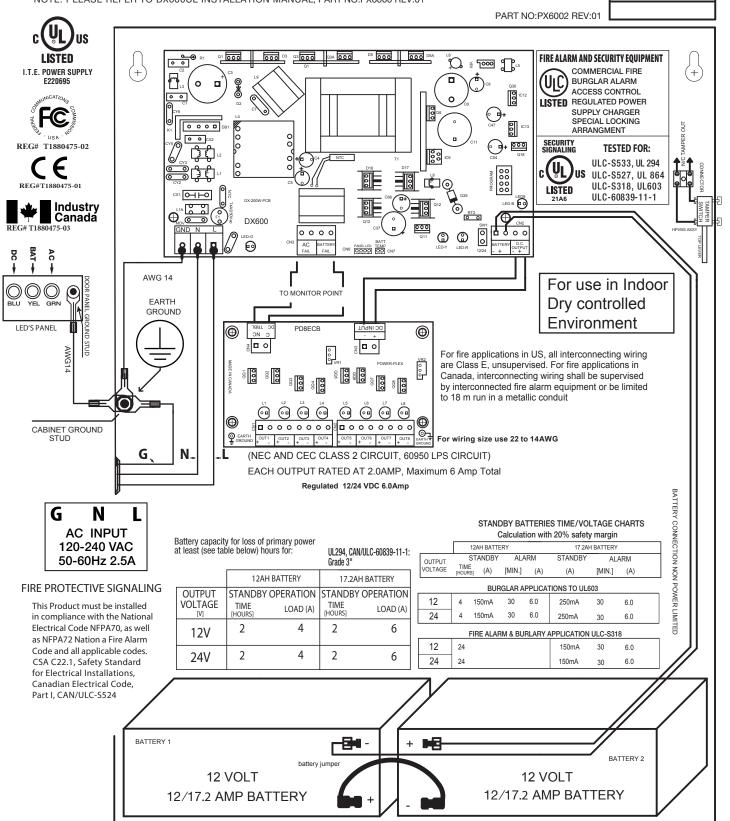
UL294, CAN/ULC-60839-11-1, CAN/ULC-S533 FOR ACCESS CONTROL SYSTEM UL864, CAN/ULC-S527 FOR COMMERCIAL FIRE

UL603, ULC-S318 FOR BURGLARY ALARM SYSTEM

NOTE: PLEASE REFER TO DX600UL INSTALLATION MANUAL, PART NO:PX6000 REV:01







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DX600ULPD16ECB

REGULATED POWER SUPPLY CHARGER UL/ULC LISTED AS FOLLOWS:

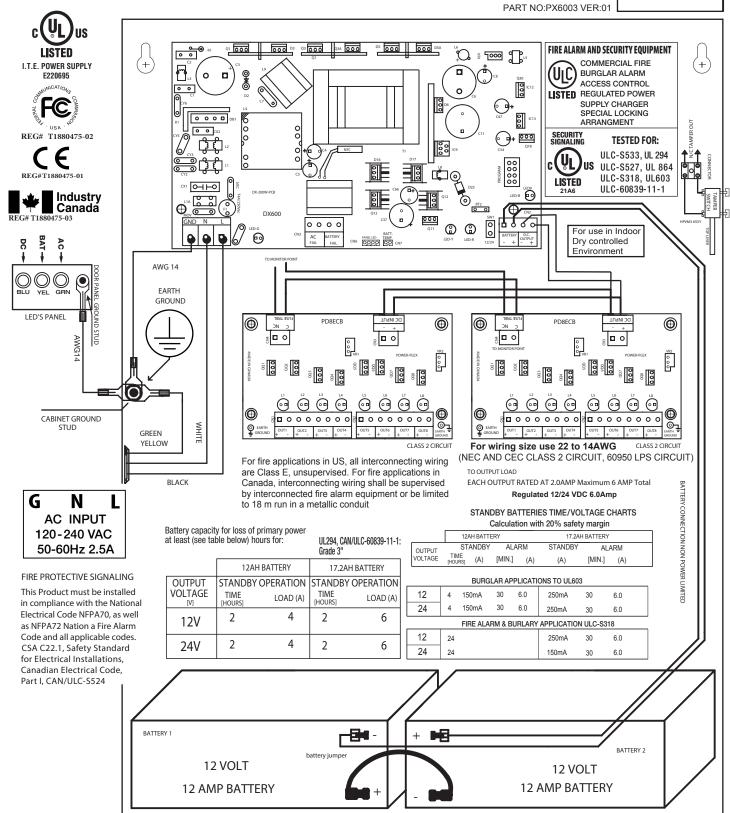
UL294,CAN/ULC-60839-11-1,CAN/ULC-S533 FOR ACCESS CONTROL SYSTEM UL864,CAN/ULC-S527 FOR COMMERCIAL FIRE

UL603, ULC-S318 FOR BURGLARY ALARM SYSTEM

NOTE: PLEASE REFER TO DX600UL INSTALLATION MANUAL, PART NO:PX6000 VER:01







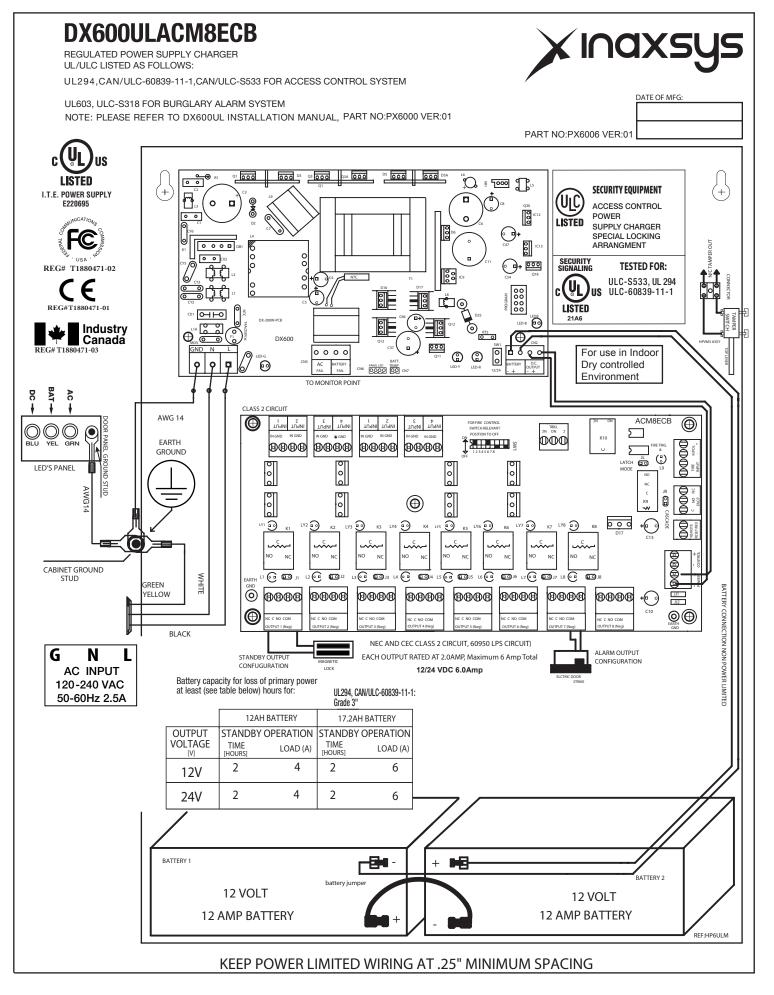
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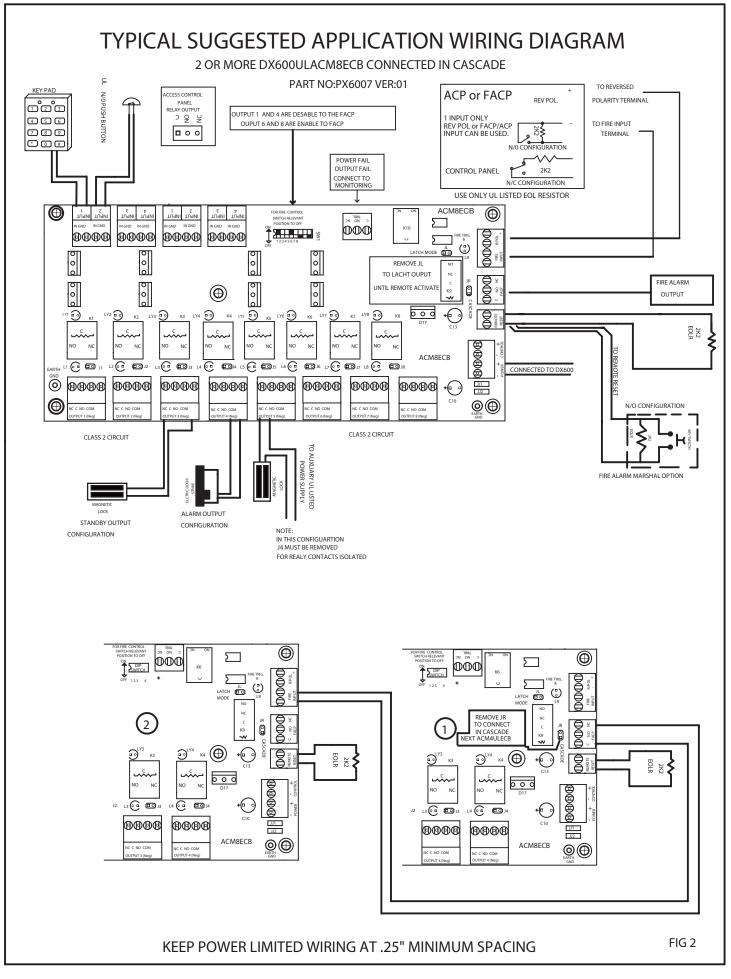
DX600ULMOM8ECB This Product must be installed in compliance with Article 760 of the National Electrical Code REGULATED POWER SUPPLY CHARGER NFPA70, and all applicable codes. CSA C22.1, UL/ULC LISTED AS FOLLOWS: UL294, CAN/ULC-60839-11-1,CAN/ULC-S533 POWER SUPPLY FOR ACCESS CONTROL SYSTEM Safety Standard for Electrical Installations, Canadian Electrical Code. DATE OF MFG NOTE: PLEASE REFER TO DX600UL INSTALLATION MANUAL, PART NO:PX6000 REV:01 PART NO:PX6004 REV:01 LISTED Q3 000 Q3A 000 DS 000 000 DS/ 000 D3 I.T.E. POWER SUPPLY **SECURITY EQUIPMENT** + $\left[+\right]$ E220695 (ՍլԸ 0 ACCESS CONTROL 000 LISTED REGULATED POWER 0 SUPPLY CHARGER EGRESS DOOR SECURING AND RELEASING DEVICES 0 0 0 0 0 0 REG# T1880468-02 **⊕**+ SECURITY **TESTED FOR:** ULC-S533, UL 294 (Մլ 00 00 00 ULC-60839-11-1 LISTED Industry Canad LED-8 🕝 Canadá DX600 何 0000 0 1000 (2) 0 PANELLED TEMP For use in Indoor 12/24 VDC 6.0Amp AWG 14 Dry controlled Environment NON POWER LIMITED FARTH GROUND To Trouble Monitoring LED'S PANEL 10 20 30 40 50 00 70 80 ◍ (**(0**00 0 0 0 0 00000000 (3) 뿚 FROM FACP/ACP QQ2 000 000 0 **ක** 0 QQ7 CABINET GROUND QQ5 FIRE 000 0 LED STUD 0 S a G **600 600** ◍ CN2 100000000 **0**0000000 AC INPUT ⊕ EASTH GRYSING (1) 1P 2P 3P 4P 5P 6P 7P 8P 1P 2P 3P 4P 5P 6P 7P 8P MOMRECE 120-240 VAC BATTERY CONNECTION NON POWER LIMITED PWX2K2 50-60Hz 2.4A ALARM OUTPUTS STANDBY OUTPUTS **EOL RESISTOR** FOR WIRING SIZE USE 22 TO 14AWG 12/24 VDC 6.0Amp FAIL SAFE CONFIG (NEC AND CEC CLASS 2 CIRCUIT, 60950 LPS CIRCUIT) O NC EOLR EOLR $\mathsf{O}\,\mathsf{no}$ FAIL SECURE CONFIGURATION N/C CONFIG **-**O c Trigger Input Battery capacity for loss of primary power UL294. Rated according at least (see table below) hours for: to CAN/ULC-60839-11-1: N/C CONFIG. Grade 31 STANDBY BATTERIES TIME/VOLTAGE CHARTS 12AH BATTERY 17.2AH BATTERY Calulation with in 20% of the safety margin OUTPUT STANDBY OPERATION STANDBY OPERATION 12AH BATTERY 17.2AH BATTERY O NC O NO STANDBY STANDBY **VOLTAGE** TIME ALARN TIME OUTPUT VOLTAGE LOAD (A) LOAD (A) THOURS (A) [MIN.] [MIN.] 2 4 2 6 12V BURGLAR APPLICATIONS TO UL603 and ULC-S318 N/O CONFIG 12 150mA 30 6.0 4 24V 2 2 6 24 150mA 30 6.0 30 6.0 BATTERY 1 12 VOLT battery jumper 12 VOLT BATTERY 2 12/17.2 AMP BATTERY 12/17.2 AMP BATTERY KEEP POWER LIMITED WIRING FROM NON POWER LIMITED WIRING AT LEAST 0.25" INCH APART

TYPICAL APPLICATION WIRING DIAGRAM 2 OR MORE DX600ULMOM8ECB CONNECTED IN CASCADE PART NO: PX6005 REV:01 TO REVERSED ACP or FACP REV POL POLARITY TERMINAL 1 INPUT ONLY REV POL or FACP/ACP INPUT CAN BE USED. DX600 UNTIL REMOTE ACTIVATE REMOVE JL TO LACHT OUPUT POWER TO FACP/ACP INPUT SUPPLY TERMINAL 12/24VDC CONTROL PANEL 2K2 N/C CONFIGURATION USE ONLY UL LISTED EOL RESISTOR 1N 2N 8N 7N 8N 00000000 GREEN STATUS OUTPUT CASCADE D QQ9 QQ10 USE ONLY ULLISTED EOL RESISTOR EOLB EOLB 0 Con TO REMOTE RESE EARTH GROUNE 1P 2P 3P 4P 5P 6P 7P 8P 1P 2P 3P 4P 5P 6P 7P 8F MOM8ECB ALARM OUTPUT STANDBY OUTPUTS N/O CONFIGURATION FAIL SAFE CONFIGURATION FAIL SECURE CONFIGURATION (NEC and CEC CLASS 2 CIRCUIT) FIRE ALARM MARSHAL OPTION FOR WIRING SIZE USE 22 TO 14AWG EOLR 10 2N 4N 5N 8N USE ONLY UL LISTED EOL RESISTOR 00000000 TO FACP/ACP 0 (1 0 Ô QQ9 QQ10 0 만 3 EARTH GROUND 1P 2P 3P 4P 5P 6P 7P 8P 1P 2P 3P 4P 5P 6P 7P 8P MOM8ECB RESET CAN ONLY PERFORMED REMOVE JR FROM UNIT 1 00000000 USE UL LISTED EOLR CIREEN (2)Ô 0 ğ 1P 2P 3P 4P 5P 6P 7P 8P 1P 2P 3P 4P 5P 6P 7P 8P MOM8ECB

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

FIG.1





Tamper Switch Connection N/C VM3 DICGU N/C N/O C VM3 1 CONNECT TO MONITORING POINT DICGU N/O N/C Ω VM3 2 CONNECT TO MONITORING POINT DICGU N/O EOLR 1 TAMPER N/C EOLR 2 TAMPERS N/C N/C VM3 DICGU CONNECT TO MONITORING POINT N/C N/O VM3 1 DICGU N/O N/C VM3 CONNECT TO MONITORING POINT 2 EOLR DICGU N/O EOLR 1 TAMPER N/O 2 TAMPERS N/O Fig. 3