



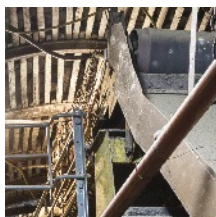
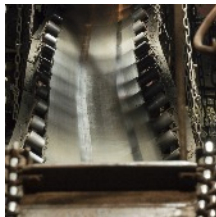
TX6636

INTRINSICALLY SAFE POWER SUPPLY



INSTALLATION & OPERATING DATA

**DESIGNED TO
CONVERT AC SUPPLY
VOLTAGE INTO A
STABILISED AND
REGULATED DC SOURCE
FOR
SUPPLYING POWER
TO APPROVED
SENSORS AND
ELECTRONIC CONTROL
DEVICES**



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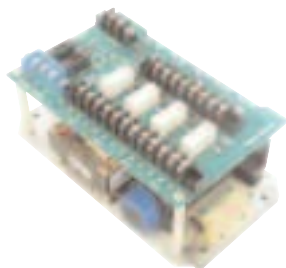
INSTALLATION & OPERATING DATA

1 PRINCIPAL OPERATING FEATURES

The TX6636 Power Supply chassis will convert an ac supply voltage into a stabilised and regulated Intrinsically Safe source for supplying power to approved sensors and electronic control devices.

Input voltage: 110V ac

The input supply is protected by two primary fuses.



Intrinsically Safe output voltage: 12V dc.

The output circuit is resistively limited in accordance with certification standards for Intrinsically Safe, ia, equipment.

Intrinsically Safe isolation relays may be supplied with all versions for switching control currents emanating from other XP enclosures or high voltage systems.

2 TECHNICAL DETAILS

	TX6636
Nominal Output Voltage:	12V dc
Maximum Output Current:	0.25A
Input Supply:	110V ac, 60Hz
Operating Temperature Limits:	-5°C...+70°C
Relay Contact Rating: (where fitted)	10A 230V ac

INSTALLATION & OPERATING DATA

3 CONFORMITY CHECK

110V ac

Does the supply voltage marked on the product agree with the locally available supply?

0.25A

Check that the output current rating marked on the product is adequate for the total current demand of the system being installed.

Is the Power Supply mounted in the correct enclosure for the application?

If in any doubt, please contact the Trolex Sales department.

12V dc

Is the output voltage correct for the system being used?

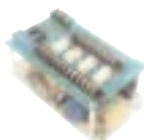
12V dc

If isolating relays are fitted, is the voltage rating of the coils correct?

If isolating relays are fitted, are the relay parameters suitable for the load being switched?

OPTIONS AVAILABLE

TX6636 INTRINSICALLY SAFEPOWER SUPPLY

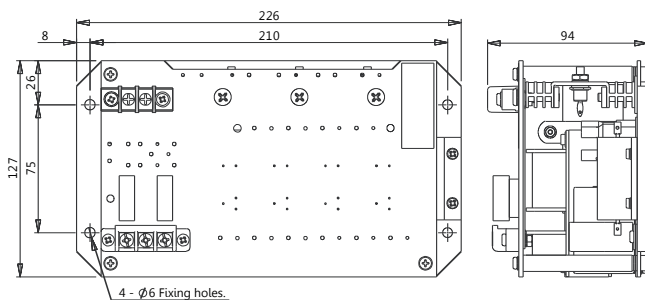


	Nominal O/P Voltage	Max O/P Current
TX6636	12V dc	0.25A

INSTALLATION & OPERATING DATA

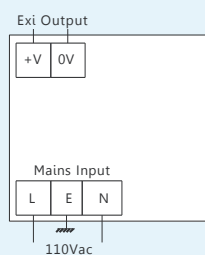
4 DIMENSIONS

4.1 TX6636 INTRINSICALLY SAFE POWER SUPPLY CHASSIS



ALL DIMENSIONS IN MM

CONNECTIONS

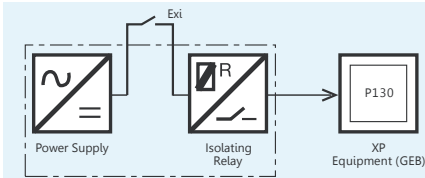


INSTALLATION & OPERATING DATA



5 ISOLATING RELAYS

Isolating relays may be combined with the Power Supply. The operating coils of the relays are Intrinsically Safe and the contacts are clearance compatible for switching non-intrinsically safe apparatus or devices in separate XP enclosures (eg. P130 pilot circuits).



A standard power supply chassis is fitted and wired with four independent relays with field connection facilities for coils and contacts.

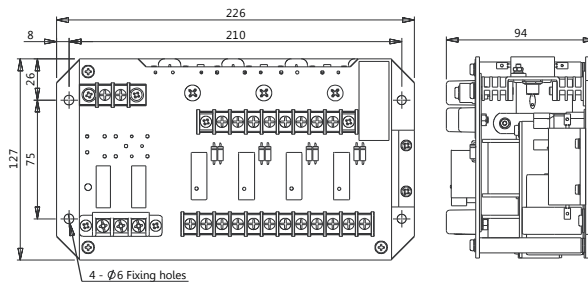
The coils are rated for 12V dc operation.

5.1 Technical Details

	Nominal O/P Voltage	Max O/P Current	Relay Contact Rating	Coil Resistance
TX6636	12V dc	0.25A	10A 230V ac	580 Ohms

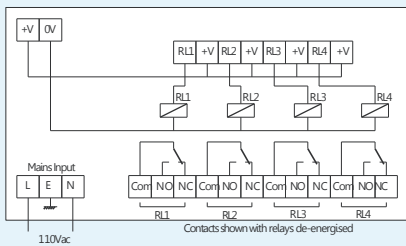
5.2 Dimensions

5.2.1 TX6636.19 INTRINSICALLY SAFE POWER SUPPLY CHASSIS with RELAYS in XP HOUSING



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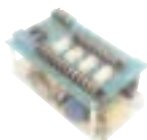
Connections



INSTALLATION & OPERATING DATA

5 ISOLATING RELAYS continued

5.2.3 OPTIONS AVAILABLE



TX6636.19 INTRINSICALLY SAFE POWER SUPPLY CHASSIS with RELAYS (Supplied loose, ready for fitting and wiring)

	Nominal O/P Voltage	Max O/P Current	Relay Contact Rating
TX6636.19	12V dc	0.25A	10A 230V ac



6 PRECAUTIONS

Carry out a current consumption audit to ensure that the maximum current loading of the power supply is not exceeded.

Ensure that the installation of the power supply, particularly with regard to the connecting cables, complies with the certification parameters (section 7).

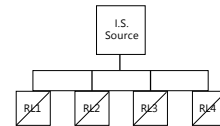
Use only the correct Trolex replacement fuses (section 7). Do not substitute any form of equivalent or linking device.

The TX6636 Power Supply must be mounted in an approved XP housing when located in a hazardous area.

The cabling between the Power Supply and other approved intrinsically safe devices must comply with the cable parameters specified in the appropriate Ex certification of the device.

Never connect two power supplies in parallel, or employ external circuitry that results in two Intrinsically Safe Power Supplies circulating in one system. This will contravene the limits of Intrinsic Safety.

Where an Intrinsically Safe Power Supply is fitted with auxiliary Intrinsically Safe isolating relays, all the relay coils are powered from a common Intrinsically Safe source.



If an ac input fuse is ruptured at any time, it can be replaced. It is recommended however, that a full investigation is carried out to try to establish the cause of the failure as this could indicate potentially dangerous external conditions.



7 APPROVALS AND CERTIFICATION

7.1 Certification

Model TX6636 Intrinsically Safe Power Supply

MSHA Intrinsic Safety Evaluation No: 18-ISA080006-0
Meets the requirements of Title 30 Code of Federal Regulations, Section 18.68

Refer to current MSHA Intrinsic Safety Evaluation for TX6636 Output Parameters and MSHA Requirements of Use.