

# **Uninterruptible Power Supply (UPS)**

with Intrinsically Safe Output and 25 Ah Battery Backup

**Environments: Mining • Tunnelling** 

#### **Features**

- Robust stainless steel housing
- Regulated output is current limited and has continuous short circuit protection
- 25 Ah back-up battery with automatic uninterrupted power transfer
- 12 V, 750 mA Ex ia Ma certified output
- Analogue output signal to show battery charge status
- Volt-free contact to show mains input status



#### **Benefits**

- Can remain on standby battery power in Ex ia Ma area conditions
- Available power can be remotely monitored via the battery charge analogue output signal
- ac mains failure can be remotely monitored via a volt-free output contact
- Spacious termination facilities to connect heavy-duty mining cables
- Sealed unit requires no user maintenance or examination
- Ex eg certification eliminates any maintenance costs of Ex d style enclosures





# **Functional Overview**

The power supply converts an ac supply voltage into a stabilised and regulated intrinsically safe source, ideal for supplying power to approved sensors and electronic control devices in hazardous areas.



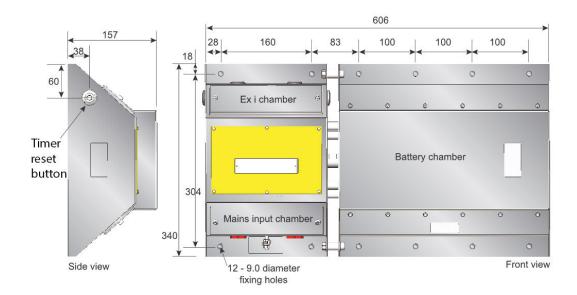
# **Technical Information**

Input Voltage:	110 V ac ± 10% or 230 V ac ± 10% - 50/60 Hz
Output Voltage:	12 V dc -0 V/+0.6 V
Output Current:	750 mA
Output Ripple/Noise:	150 mV max
Line Regulation:	<5% over the input voltage range
Load Regulation:	<5% over 0 to 90% of load current
	<10% between 90% and 100% of load current
Voltage Limiting:	Over voltage detection with crowbar protection and short circuit protection
Current Limiting:	Automatic current limiting of the intrinsically safe output also limits the current
	to less than the rupturing capacity of the output protection fuse.
Max. Operating Temperature:	-20°C to +40°C
Storage Temperature:	−20°C to +70°C
Humidity:	0 to 95% RH, non-condensing
Vibration Limits/Low Frequency:	0.25 mm peak, sinusoidal vibration in the range 10 Hz to 100 Hz
	in 3 perpendicular planes
Medium Frequency:	2g peak, sinusoidal vibration in the range 10 Hz to 600 Hz
	in 3 perpendicular planes
Mechanical Shock:	1000 shocks of 40g minimum in 3 perpendicular planes
Housing Material:	Stainless steel
Weight:	35 kg
Back-up Battery:	Sealed lead-acid - 25 Ah
	Automatic charge control to full capacity
	Automatic uninterrupted output power transfer following input power failure
Power Fail Indication:	Relay contacts change state on power failure.
	Contact rating: 0.25 A at 30 V dc max.
Charge Condition:	Analogue output signal proportional to the charge level of the battery
	Choice of 0.4 V to 2.0 V or 4 to 20 mA signals
Battery life:	6 years with normal usage
Ex Certification:	ATEX/IECEx/EAC Group I - for full certification details refer to user manual

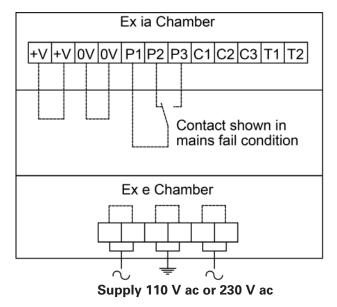
**TROLEX** 



#### **Dimensions**



## **Connections**





## **Order Reference**

ATEX & IECEx Certification

110 V ac supply: **TX6649.35.105.101.1206.19** 

230 V ac supply: **TX6649.35.106.101.1206.19** 



**EAC Certification** 

110 V ac supply: **TX6649.35.105.101.1206.14** 

230 V ac supply: **TX6649.35.106.101.1206.14** 

# At Trolex, we save lives.

We believe that no person should risk their life to earn a living.

Our aim is to become the world's leading name in health and safety technology, through pioneering products that provide real-world benefits to our customers, whenever workers operate in hazardous environments.

For more information about Trolex, please contact us at:

## **Enquiries**

sales@trolex.com

#### **Telephone**

+44 (0) 161 483 1435

#### Fax

+44 (0) 161 483 5556

#### **Trolex Ltd**

Newby Road, Hazel Grove Stockport, Cheshire SK7 5DY, United Kingdom

#### Website

www.trolex.com



/company/trolexUK



trolexUK



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/user/TrolexUK