Wolf® 400VA Ex-Proof Transformer

LL-114/T3, LL-214/T3, LL-221/T3, LL-133/T3, LL-233/T3, LL-243/T3

IMPA Code:*33 19 01 - LL-133/T3, 33 19 02 - LL-233/T3*

The Wolf ATEX 400VA Transformer is a high-capacity, professional ex-proof power unit designed to supply temporary lighting and electrical systems in hazardous areas. Offered by **IST Safety Ltd, the official distributor of Wolf**, this 400VA capacity unit allows for the simultaneous powering of more luminaires or devices compared to the 250VA model. It steps down high voltage to safe operating levels such as 24V or 110V to protect personnel from electrical shock risks, especially in wet, damp, and metallic conductive environments.

Certified for Zone 1/21, the transformer features a robust GRP (Glass Reinforced Polyester) enclosure that is impact-resistant and corrosion-proof, ensuring reliable performance in the most demanding industrial conditions. Its portable design and compact footprint provide significant ease for rapid installation and logistics across a wide range of applications, from refineries to large-scale tank cleaning operations.

Usage Areas

- **Large-Scale Tank Cleaning:** Powering multiple low-voltage lighting units from a single point in confined spaces.
- **Oil & Gas:** Safe distribution of temporary electrical lines in refineries and petrochemical plants according to ATEX standards.
- **Marine & Shipyards:** Heavy maintenance and repair operations conducted in ship holds, ballast tanks, and dry docks.
- **Heavy Industry:** Establishing safe on-site power points in facilities where flammable dust or gas risks are present.

The Wolf ATEX transformers have a CE mark and are safe to use in places with explosive gases (Zone 1) and dust (Zone 21). They can be used where certain temperatures are allowed. These transformers are certified by both ATEX and IECEx for safety.

Certification

- The Wolf ATEX transformers have a CE mark.
- They are safe to use in Zones 1 (explosive gas) and 21 (dust) areas.
- They can be used in areas with specific temperature limits.
- The transformers are certified according to both ATEX and IECEx standards.
- For GRP,

For Output Power ≤ 400VA

II2 GD Ex d e IIC T3 Gb
Ex t IIIC T195°C Db IP66 (-20°C ≤ Ta ≤ +35°C)

For Output Power ≤ 320VA

II2 GD Ex d e IIC T3 Gb
Ex t IIIC T195°C Db IP66 (-20°C ≤ Ta ≤ +50°C)

- For Stainless Steel,

For Output Power ≤ 400VA

II2 GD Ex d e IIC T3 Gb Ex t IIIC T195°C Db IP66 (-20°C ≤ Ta ≤ +30°C)

For Output Power ≤ 320VA

II2 GD Ex d e IIC T3 Gb Ex t IIIC T195°C Db IP66 (-20°C ≤ Ta ≤ +42°C)

Warranty and Technical Support

- **Warranty:** 2-year manufacturer's warranty.
- **Official Support:** Original spare parts and professional technical service are provided through IST Safety Ltd, the official distributor of Wolf in Turkey.

Standards

Ex-Proof (ATEX)

IECEx

TECHNICAL DETAILS

- Robust and durable construction for tough environments.
- Transportable and portable design for easy handling.
- Wide range of voltages: 230V or 110V to 24V and 230V to 110V.

- 400VA and 320VA power rating options to suit different power needs.
- Fitted with 4 x ATX socket outlets for easy connections.
- Supplied with a 15m SY cable and ATX plug for immediate use.
- CEAG, STAHL, and Marechal plug options available for compatibility.
- Powers temporary ambient and task lighting for maintenance tasks.
- 110V versions available with CTE (Centre Tap Earth) option for added safety.
- The transformers are available with a stainless steel or GRP enclosure, sealed to IP66, making them suitable for wet and dusty conditions.

ATEX 400VA Transformer						
PRODUCT REFERENCE	**LL-114/T3**	**LL-214/T3**	**LL-221/T3**	**LL-133/T3**	**LL-233/T3**	**LL-243/T3**
PRODUCT DESCRIPTION	**GRP**			**Stainless Steel**		
	110V:24V	**230V:24V**	**230V:110V**	**110V:24V**	**230V:24V**	**230V:110V**
CODE	**For Output Power ≤ 400VA II2 GD Ex d e IIC T3 Gb Ex t IIIC T195°C Db IP66 (-20°C ≤ Ta ≤ +35°C) For Output Power ≤ 320VA II2 GD Ex d e IIC T3 Gb Ex t IIIC T195°C Db IP66 (-20°C ≤ Ta ≤ +50°C)**			**For Output Power ≤ 400VA II2 GD Ex d e IIC T3 Gb Ex t IIIC T195°C Db IP66 (-20°C ≤ Ta ≤ +30°C) For Output Power ≤ 320VA II2 GD Ex d e IIC T3 Gb Ex t IIIC T195°C Db IP66 (-20°C ≤ Ta ≤ +42°C)**		
TYPE OF PROTECTION	**'e' increased safety, 'd' flameproof**					
AREA OF CLASSIFICATION (GAS)	**Zones 1 and 2, Gas groups IIA, IIB and IIC**					
TEMPERATURE CLASS (GAS)	**T3**			**T3**		
AREA OF CLASSIFICATION (DUST)	**Zones 21 and 22, Dust Groups IIIA, IIIB and IIIC**					

MAX. SURFACE TEMPERATURE (DUST)	T195°C		T195°C	
AMBIENT TEMPERATURE	400VA -20°C to +35°C 320VA -20°C to +50°C		400VA -20°C to +30°C 320VA -20°C to +42°C	
CERTIFICATE	ATEX - LCIE02ATEX6248X IECEX - LCI 04.0016X		ATEX - LCIE02ATEX6118X IECEX - LCI 11.0008X	
ENCLOSURE	Glass reinforced polyester (GRP) enclosure, marine grade (316L) stainless steel skid		Marine grade (316L) stainless steel enclosure and skid	
POWER	320 / 400VA		320 / 400VA	
VOLTS IN	110V ac +6% -10%	230V ac +6% -10%	110V ac +6% -10%	230V ac +6% -10%
INPUT CABLE	15m SY cable 2.5mm² with ATX 110V / 230V 2P+E plug fitted as standard			
VOLTS OUT	24V	110V	24V	110V
SOCKET ARRANGEMENT & CONFIGURATION	4 output sockets, ATX 110V / 24V 2P+E as standard			
	2 sockets on each unit side			
DIMENSIONS	504 x 465 x 285mm (L x W x H)		512 x 562 x 260 mm (L x W x H)	
INGRESS PROTECTION	IP66			
WEIGHT	21 kg		28 kg	

What is ATEX Lighting?

What is ATEX and what does exproof mean? The **ATEX directive** is a set of European Union standards that define the safety requirements for equipment used in hazardous areas with explosive atmospheres. **Exproof** (Explosion-proof) refers to protection methods designed to prevent explosions by inhibiting the formation of sparks or electrical arcs in

environments containing flammable gases, dust, or vapors. To ensure life and property safety in industrial facilities, the use of **ATEX-certified exproof devices** is a legal requirement.

What is ATEX Zone Classification?

ATEX Zone coding is a technical classification based on the frequency and duration of the occurrence of an explosive atmosphere in a given area. While the terms **Zone 0, 1, and 2** are used for risks originating from gas, vapor, and mist; the codes **Zone 20, 21, and 22** are designated for environments containing combustible dust. This classification is a legal standard that determines the required Equipment Protection Level (EPL) for devices. Accurate zone identification both optimizes operational costs and minimizes occupational safety risks.

What is IECEx Certification? How Does it Differ from ATEX?

In addition to ATEX certification, some projects may also require the IECEx Certification System (International Electrotechnical Commission Explosive Atmospheres System) certification. IECEx is an internationally recognized conformity assessment system for equipment intended for use in explosive atmospheres.

While ATEX is a European Union directive and a legal requirement within the European market, IECEx is a globally accepted certification system, widely preferred in regions such as the Middle East, Asia, and Australia.

From a technical perspective, both ATEX and IECEx are based on similar standards (e.g., the EN/IEC 60079 series). However:

- ATEX is a mandatory legal directive, whereas
- IECEx is an international certification system (voluntary, but widely required)

Therefore, while ATEX certification may be sufficient for certain projects, international tenders or critical industries such as oil & gas often prefer or require products that are certified to both ATEX and IECEx standards.

The appropriate certification should be determined based on the project location, client requirements, and application area.