

# VTM 15000

Impulse Transformer for  
Isolation Testing

*Datasheet*



**HAEFELY**

Current and voltage – our passion

# General Description

The VTM 15000 is used for isolation testing with 1.2/50µs voltage impulses

The VTM 15000 operates together with a combination wave generator such as the AXOS Series System or PSURGE 8000 & PIM 100. The output voltage of the generator is doubled; the voltage wave shape remains the same. The current wave shape is not defined any more. The lightning impulse is the most common impulse shape for testing isolations. No flash over should occur during testing.

It is important to keep the load capacitance below the given maximum for having a proper impulse shape at the output of the VTM 15000. When the maximum load capacitance is exceeded one or more impulse parameters may be out of tolerance. The PSURGE 8000 Surge Platform and AXOS Surge Test System provide all the programming functions required to perform IEC, ANSI, and UL testing without the need of a control computer.

Features	Advantages
<ul style="list-style-type: none"><li>1.2/50 µs voltage impulse</li></ul>	<input checked="" type="checkbox"/> <b>Separate Outputs –</b> for each source impedance
<ul style="list-style-type: none"><li>Output amplitude up to 15 kV (PSURGE 8000 &amp; PIM 100)</li></ul>	<input checked="" type="checkbox"/> <b>Floating Output</b>
<ul style="list-style-type: none"><li>Output amplitude up to 14 kV (AXOS 8)</li></ul>	
<ul style="list-style-type: none"><li>Output amplitude up to 10 kV (AXOS 5)</li></ul>	
<ul style="list-style-type: none"><li>Source impedance 12 Ω, 40 Ω, and 500 Ω</li></ul>	

# Applications

- IEC 60060-1
- IEC 60335-1
- IEC 61010-1
- IEC 61180-1
- IEC 61008-1
- IEC 61009-1

## Scope of Supply

- VTM 15000 Impulse Transformer
- HV input cable
- HV cable for HIGH output
- HV cable for COMMON output
- Cable for protection earth
- User manual

## Technical Data

Device		
Turns Ratio	1:2	
Impulse Shape	1.2 / 50 $\mu$ s	Voltage impulse
Output Impedances	12 $\Omega$	Load capacity < 200 pF, Load resistance > 5 k $\Omega$
	40 $\Omega$	Load capacity < 300 pF, Load resistance > 5 k $\Omega$
	500 $\Omega$	Load capacity < 600 pF, Load resistance > 50 k $\Omega$
Output Voltage	15 kV	PSURGE 8000 & PIM 100
	14 kV	AXOS <sup>8</sup>
	10 kV	AXOS <sup>5</sup>
Impulse Output	HIGH	HAEFELY HV Sockets safety banana socket
	COMMON	terminal with 4 mm banana socket
	Earth Protection	

## Global Presence

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HIGH VOLTAGE



INSTRUMENTS



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