

## Portable VLF (Very Low Frequency) Testing

# AXV Series

HIGHEST RESOLUTION AND ACCURACY  
WITH LOW COST



# AXV Series

Easiest operation of any available equipment.

Meets worldwide cable test standards.

Sinusoidal Output.


Multiple Frequency Selection for extra long cables.

Cable Leakage Measurement.

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# amperis

[www.amperis.com](http://www.amperis.com)

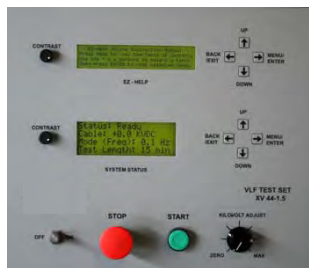
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The AXV Series of VLF test equipment is the latest addition to the AMPERIS family of high voltage test equipment, known worldwide as the most reliable high voltage test equipment available. Our advanced design provides you with a rugged, easy to use system that is easily portable to your test site. Digital menu based controls and an on-screen instruction system make the system easy to operate.

AXV Series equipment is perfect for testing Extruded Cables (XLPR/EPR), Laminated Cables, Cable Jackets/Sheaths, Generators, Switchgear, Transformers, Insulators, Bushings, and Rotating Machines.



Detail of control panel

The AXV Series of VLF test equipment is designed to meet all of your needs for VLF testing of underground cables. VLF has been recognized by industry as an alternative test method to the traditional high voltage DC hipot test. VLF is designed to provide similar stresses to a 50/60 Hz AC test, without the extremely high power and equipment requirements of such a test.

VLF is specified as a 0.1 Hz or slower sinusoidal wave shape. At 0.1 Hz, every cycle takes 10 seconds. The AXV series will apply the voltage with a microprocessor controlled power supply, which will raise the voltage in the shape of a sinusoid in the first quarter cycle. The system will then discharge the cable with a microprocessor controlled, fully variable discharge system. At the zero crossing the system reverses polarity, and repeats the processes. Our fully variable discharge system allows us to reduce power consumption, and maintain a true sinusoid without distortion across the full range of loads.

The AXV Series is designed to be easily portable, or permanently mounted in a vehicle. Systems can also be mounted in a vehicle in such a way as to allow them to be removed to access test sites that cannot be accessed by vehicle. Portable systems are designed in one piece with an integrated hand truck. This allows one person to easily move the entire system over rough terrain to access the test location. The system is designed to allow easy loading and unloading from any standard truck. Runners are provided for sliding the unit into small trucks and vans, and a lifting point is provided for taller vehicles such as aerial lift trucks.

### THREE DIFFERENT MODELS:

	AXV28-1	AXV44-1.5	AXV62-1
Maximum Output Voltage	28kV Peak (20kV RMS)	44kV Peak (31kV RMS)	62kV Peak (44kV RMS)
Output Modes	AC Hipot (VLF) Sinusoidal and load independent. DC Hipot (Negative or Positive Polarity). Burn, Cable Fault Conditioning Mode. Sheath/Jacket Testing		
Maximum Load Capacity, VLF	1μF @ 0.1 Hz, Up to 5μF at reduced frequency	1.5μF @ 0.1 Hz, Up to 7.5μF at reduced frequency	1μF @ 0.1 Hz, Up to 5μF at reduced frequency
VLF Test Frequencies	Selectable 0.1 Hz, 0.05Hz, 0.02 Hz, 0.01 Hz (Additional Frequencies available upon request)		
Main Supply	120V AC or 240V, 50/60 Hz AC +/- 10% (Operating voltage must be specified at time of purchase)		
Duty Cycle	Continuous		
Environmental	-4° F (-20° C) to 113° F (45° C) Humidity non condensing		
Metering	Voltage - True RMS and/or Peak, 0.1kV ± 1%. Current - 0.1mA ± 1%		
Computer Interface/Memory	USB Port - Unlimited Test Record Storage with USB Drives. No Specialized Software Required, Automatic Storage of Results		
Dimensions H x W x D Weight	49" (124 cm) x 23" (58 cm) x 25" (64 cm) 150 lbs (68 kg)	49" (124 cm) x 23" (58 cm) x 25" (64 cm) 177 lbs (80 kg)	49" (124 cm) x 26" (66 cm) x 25" (64 cm) 250 lbs (113 kg)

## OPTIONAL SAFELY DELIVER EQUIPMENT TO THE JOB SITE

Amperis Transporters provide a safe and easy way to transport XF series cable fault locating equipment or Savor temporary service restoration equipment. With a minimum of user effort the equipment can be moved to any job site with a truck equipped with a receiver hitch.



Manual Transporter with Savor



Loading and AXF onto Manual Transporter