HV TEST

Cable Fault Van & Trailer Solutions

Ukuduma 2000 - 32kV Cable Fault Location System

Merging our engineering knowledge base and unparalleled expertise in the field of cable fault location and cable diagnostics to provide improved cable fault locating solutions.

- *8kV Trolley Fault Locating System*
- *32kV Trolley Fault Locating System*
- *16kV Medium Trailer*
- *32kV Large Trailer*
- *32kV Custom Van/Truck*

www.hvtest.co.za

For more info on all our Cable Fault Location Systems please contact HV Test at: **sales@hvtest.co.za | +27(11) 782 1010 | www.hvtest.co.za**

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Ukuduma 2000 - 32kV Cable Fault Trailer System

HV Test is very proud to introduce our own HV Test brand of cable fault location equipment and DC hipots to complement our existing VLF (Very Low Frequency) range. With 42 years of experience in the high voltage electrical testing sector, we recognize the need to merge our engineering knowledge base and unparalleled expertise in the field of cable fault location and cable diagnostics to provide new and improved cable fault location solutions that better match our customers' requirements.

Features:

- Three years warrantee on the surge generator capacitor
- Option of manual or automatic switch over between voltage ranges within capacitor
- High Joule energy of up to 1000J @ 4/8/16kV and up to 3000J @ 4/8/16/32kV
- The cable tracer tone generator is integrated in the Cable Fault Location System
- EWSETA training courses available, presented by HV Test Academy
- CE Compliance, ISO 9001, ISO 45001 accreditation
- Guaranteed local support, eliminating the need, cost and time related to sending units back to the factory for repair

Cable Fault Location range includes:

- Standalone surge generators, pre-locators and acoustic listening devices
- Integrated systems comprising of surge generator, pre-locators and acoustic listening devices
- Trailer, van or truck installed complete cable fault location and diagnostic systems
- DC hipots

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Specification For a Large Size Custom Build Trailer

Trailer Configuration & Construction

The trailer is a heavy-duty, two-wheel enclosed model purpose-built for the safe transport of test and measuring equipment.

Features include:

- Lockable side access door positioned on the left-hand front side.
- Rear gullwing-style door with a lower left-hand hinged flap for easy loading.
- Lockable left-hand access door and internal shelving system.
- Integrated four-battery mounting frame designed for secure and stable battery housing.

Structural & Functional Features

- The interior incorporates top-hat reinforcement sections to secure and protect sensitive equipment during transit.
- The floor structure is strengthened and reinforced to safely carry heavy test apparatus and fixtures.
- Underbody channel sections are provided for the routing and protection of cabling associated with installed machines and test instruments.

Warranty

- A 12-month conditional warranty is provided, covering all manufacturing workmanship and materials under normal road operating conditions.

Documentation

- All relevant documentation is provided as part of delivery scope

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Large Trailer Specifications:

BODY DIMENSIONS	2,1m Long (excluding nose cone and drawbar) x 1,53m wide x 1,55m high
CHASSIS MATERIAL	76mm x 38 mm x 6mm thick mild steel hot rolled channel iron
FLOOR MATERIAL	3mm thick mild steel plate with additional under floor reinforcing to secure the equipment
BODY MATERIAL	1,6mm & 1,2mm thick mild steel sheets (profile formed and panelled)
PAYLOAD	+/- 1000 Kg (Tare +/- 600Kg x GVM +/- 1800 Kg)
BRAKES	Mechanical override and park brake system with auto reverse release mechanism
COUPLER	50mm ball and socket type (2000 Kg)
SUSPENSION	blade leaf springs type with shock absorbers
TYRES	195R14C x 8 ply steel belt radials (950 Kg each)





INVERTER
Input voltage range (V DC) 9,5 – 17 V 19 – 33 V 38 – 66 V
Output voltage: 230 VAC ± 2%
Frequency: 50 Hz ± 0,1% (1)
Cont. output power at 25°C 5000 VA
Cont. output power at 25°C 4000 W
Cont. output power at 40°C 3700 W
Cont. output power at 65°C 3000 W
Peak power 10 000 W
Maximum efficiency (%) 94 / 95
Zero load power (W) 30 / 25
Zero load power in AES mode 25 / 30

CHARGER
AC Input voltage range: 187-265 VAC
Input frequency: 45 – 65 Hz
Power factor: 1
Charge voltage 'absorption' (V DC) 14,4 / 28,8 / 57,6
Charge voltage 'float' (V DC) 13,8 / 27,6 / 55,2
Storage mode (V DC) 13,2 / 26,4 / 52,8
Charge current house battery 120/70A

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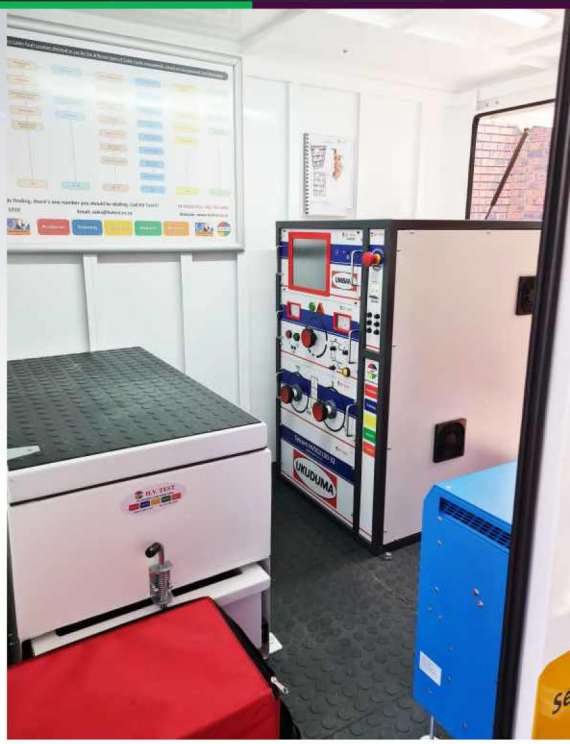

HVSG2100-32 32kV Portable Fault Locating System

The HVSG2100-32 is a 32kV compact test unit and cable fault location low and medium voltage. The reflectometer has the most modern pre-locating methods TDR (Time Domain Reflection) ICE (Impulse Current) ARC (Arc Reflection Method) and DECAY (Voltage Decay) methods which you can use on any of the 3 ranges (8- 16-32 kV) of the impulse generator shockwave.

A peak power of 2024J provides the power required to accurately pin-point cable faults through the acoustic method using the powerful pin-pointer. The powerful high voltage source allows testing at any voltage level between 0 to 32kV.

Features:

- Compact and sturdy unit
- Modular configurable
- High energy peak for accurate and effective pinpointing
- Safe and fast location of faults
- It includes several methods of pre-fault location (TDR - ICE-ARC)
- Suitable for medium-small utility

Delivery includes:

- 30 meters cable reel
- Command Module
- Reflectometer
- Audio frequency generator
- Switch Range key (8, 16 or 32 kV)
- Switch functions Key (ARC Filter, Direct and Signal)
- AT Output cable
- Safety ground cable
- Operation ground cable
- Power cord

Optional:

- 50 meters cable reel
- Trailer or Van Installation