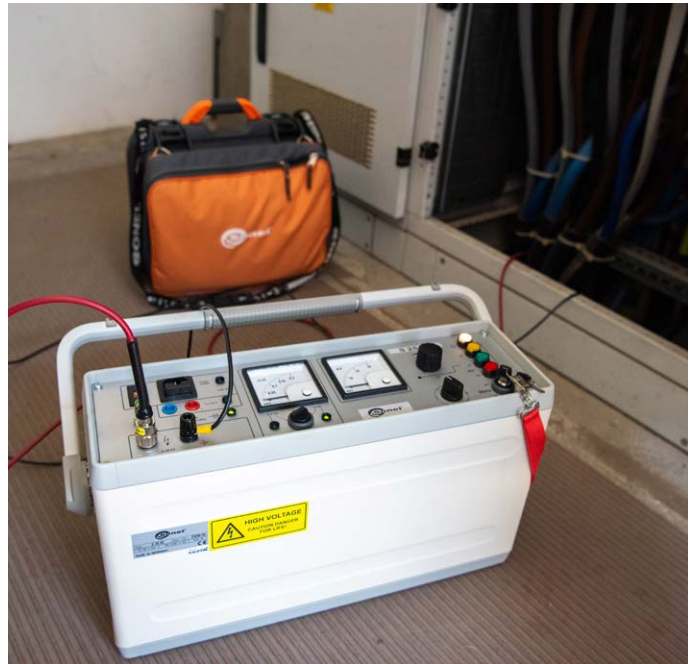




S DC series High Voltage Insulation Testers
HV insulation under full control

Features

- Easy operation
- Robust construction, low weight
- Integrated timer:
 - max. 30 min for S-25 DC (standard)
 - max. 60 min for S-50 / 80 / 110 / 120 DC (option)
- Discharge device:
 - integrated (S-25 DC),
 - external ground-discharge rod (S-50 / 80 / 110 / 120 DC)
- Internal battery charger with deep discharge protection (S-25 DC)
- Voltage measurement direct at HV output
- Short-circuit-proof output:
 - electronically limited output current (S-25 DC)
 - protection by overcurrent tripping (S-50 / 80 / 110 / 120 DC)
- Protective ground connection
- Mains-independent by internal rechargeable battery (S-25 DC)



Overview

The S-xx DC series devices are universal high voltage testers. They are extremely robust, but also lightweight, compact and easily portable thanks to a transport case on wheels (only for S-50 / 80 / 110 / 120 DC).

Capacitive loads, such as shielded power cables, will be properly and automatically discharged in case of an error or at the end of testing time by the integrated discharge device.

Key switch, switch-on interlock and a protective ground circuit ensure maximum safety.

S-25 DC stands out in particular. Not just with modest dimensions. Thanks to an internal rechargeable battery it enables mains-independent testing.



Fields of application

- Testing at recommissioning of cable systems after maintenance and repair
- Testing of newly installed cables and cable joints before commissioning
- Voltage testing at cable sheath (S-25 DC)
- Regular preventive cable testing (S-50 DC / 80 DC / 110 DC / 120 DC)
- Testing of electrical equipment



Technical specification

| | S-25 DC | S-50 DC | S-80 DC | S-110 DC | S-120 DC |
|--|---|--|--|---|---|
| Index | WMUSS25DC | WMUSS50DC | WMUSS80DC | WMUSS110DC | WMUSS120DC |
| Power supply | <ul style="list-style-type: none"> • internal rechargeable battery • mains, switchable 115 / 230 V, 50-60 Hz • external DC voltage source 11...15 V DC | | mains 230 V / 50 Hz (optional: 115 V / 60 Hz) | | |
| Power consumption | max. 120 VA | | max. 900 VA | | |
| Output voltage | <ul style="list-style-type: none"> • 0...25 kV DC • infinitely adjustable • negative polarity • ripple < 0,25% | <ul style="list-style-type: none"> • 0...50 kV DC • infinitely adjustable • negative polarity | <ul style="list-style-type: none"> • 0...80 kV DC • infinitely adjustable • negative polarity | <ul style="list-style-type: none"> • 0...110 kV DC • infinitely adjustable • negative polarity | <ul style="list-style-type: none"> • 0...120 kV DC • infinitely adjustable • negative polarity |
| Rated output current at max. output voltage | 1.5 mA electronically limited | 6 mA | 5 mA | 4 mA | 3.5 mA |
| Battery operation at full load | 45 min | | | - | |
| Discharge - integrated automatic discharge device | 3000 J 9.6 µF at 25 kV | 7500 J 6 µF at 50 kV | 12 250 J 4 µF at 75 kV 3.5 µF at 80 kV | 15 000 J 3 µF at 100 kV 2.5 µF at 110 kV | 18 750 J 2.4 µF at 125 kV 2.6 µF at 120 kV |
| Voltage measuring range | 0...30 kV | 0...50 kV | 0...80 kV | 0...110 kV | 0...130 kV |
| Current measuring ranges | 0...200 µA / 0...2 mA manual or automatic switching between ranges | | 0...100 µA / 1 mA / 10 mA manual switching between ranges | | |
| Operating temperature | | | -25...+55°C -13...+131°F | | |
| Storage temperature | | | -40...+70°C -40...+158°F | | |
| Weight | Operating unit | 13.5 kg 29.8 lbs | | 13 kg 28.7 lbs | |
| | High voltage unit | - | 17 kg 37.5 lbs | 18.5 kg 40.8 lbs | 20 kg 44.1 lbs |
| Dimensions | Operating unit | 473 x 152 x 275 mm 18.6" x 6.0" x 10.8" | | 370 x 200 x 280 mm 14.6" x 7.9" x 11.0" | |
| | High voltage unit | - | 210 x 380 x 310 mm 8.3" x 15.0" x 12.2" | 210 x 400 x 310 mm 8.3" x 15.7" x 12.2" | 210 x 420 x 310 mm 8.3" x 16.5" x 12.2" |

Standard accessories

S-25 DC



Protective bag



Power cable



Connection cables for external DC power supply



Protective ground cable, 3 m



Operation ground cable, 3 m



High voltage connecting cable (shielded), 3 m



Service pack



Start keys



User manual

S-50 DC / S-80 DC / S-110 DC / S-120 DC



Protective bag



Discharge rod



Protective ground cable, 3 m



Operation ground cable, 3 m



High voltage connecting cable, 2 m



Service pack



Start keys



User manual

Optional accessories

S-25 DC



Transport case



Transport case with wheels

WAWALXXL1

S-50 DC / S-80 DC / S-110 DC / S-120 DC



Transport case



Transport case with wheels

WAWALXXL2

