

accessories

External Warning Lamp

Connected to any generator, the additional, stand-alone wide viewing angle warning lamp indicates clearly the status of the test equipment using red & green lights.

External Emergency Stop Switch

Connected to any generator, the EMERGENCY STOP SWITCH, when activated instantly discharges high voltage circuits and switches off power to the EUT.

Calibration Accessories

High Voltage Output plugs

All Surge generators have an internal calibration routine, to set the correct impulse level, which is controlled by the system firmware. A high voltage plug with connected high voltage cables enables access for external impulse calibration.



FP-SURGE32.1 - 32A AC/DC 3ph CDN

Automatic, 3 phase coupling / decoupling unit for power lines coupling requirements. An additional CDN to expand the PSURGE 4010 and PSURGE 6.1 into three-phase test systems.

- test object AC power line voltage max. 690Vac
- test object current max. 32Aac per phase
- test object DC power line voltage max. 110Vdc
- test object current max. 30Adc per phase
- automatic coupling path switching
- automatic selection of coupling capacitors 9 or 18 μ F
- meets IEC and ANSI coupling requirements
- maximum impulse voltage 7kV
- test object power line bypass mode
- test object over-current protection
- integrated network to protect surge generator
- safety circuit in series with surge generator output



FP-SURGE100M - 100A AC 3ph CDN

Manual, 3 phase coupling / decoupling units for power line coupling requirements. An additional CDN to expand the PSURGE 4010, PSURGE 6.1 and PLATFORM into three-phase 100A test systems.

test object power line voltage max. 690Vac
test object current max. 100A per phase
coupling path changed by rotary switch
meets IEC and ANSI coupling requirements
maximum impulse voltage 7kV
automatic selection of coupling capacitors 9 or 18 μ F
integrated network to protect surge generator
safety circuit in series with surge generator



FP-SURGE100DC - 100A DC 3ph CDN

Manual, DC coupling / decoupling unit for power line coupling requirements. An additional CDN to expand the PSURGE 4010, PSURGE 6.1 and PLATFORM into high power DC test systems.

test object power line voltage max. 110Vdc
test object current max. 100A
coupling path changed by rotary switch
meets IEC and ANSI coupling requirements
maximum impulse voltage 7kV
integrated network to protect surge generator
safety circuit in series with surge generator



FP-SURGE16 - 16A AC/DC 1ph CDN

Manual, single phase coupling / decoupling unit for power lines coupling requirements with PSURGE6.1 (or low cost CDN for PLATFORM)

test object power line voltage max. 264Vac
test object current max. 16A
coupling path changed by manual switch
meets IEC and ANSI coupling requirements
maximum impulse voltage 7kV
manual selection of coupling capacitor



IP6.2, DEC1A, DEC3A - Signal Line Couplers/Decouplers

Manual, 4 wire coupling/decoupling units for data and telecom requirements.

coupling for 1.2/50 and 10/700us impulses
capacitor coupling
gas arrester coupling for higher speed signal lines
longitudinal and transverse coupling modes
balanced line coupling / decoupling
unbalanced line coupling / decoupling
decoupling of signals up to 100kHz square wave
maximum impulse voltage 6kV



ETS C1, ETS C2 - ISDN Coupling Units

To meet testing requirements in ISDN Systems, specialized coupling and line stabilization networks are necessary.

safety tests require the coupling network (C1) and measuring device (E1).

protection tests require coupling networks (C1), impedance matching networks (C2) and termination networks (D1A or D1B).

ETS C1 coupling network for surge impulses

ETS C2 impedance matching network to protect power supplies from test voltages

ETS D1A terminating network 250 Ω for impulse transfer testing to ETS 300-047

ETS D1B terminating network 60 Ω for impulse transfer testing to ETS 300-046

ETS E1 measuring device for touch current testing



MSURGE - Impulse Magnetic Fields

Impulse Magnetic Fields occur as a secondary effect of lightning discharges. Such fields can disturb electronic equipment or cause data corruption.

Antennas and field drivers / transformers for field strength up to 2600A/m are available.

See the [MF](#) (magnetic fields) section for these products.



PTC 360 - Safety test Cabinet

To be used for component surge testing where the E.U.T. could explode and present a fragmentation hazard. PTC 360 connects to the Surge Coupling/Decoupling Network on the EUT side. The PTC 360 can be used together with all Haefely single and three phase CDNs.

EUTs can be connected to single or three phase supplies while the surge pulse is applied. Connections are L1, L2, L3, Neutral and Earth.

The effective test cabinet size is 452 x 487 x 1010mm allowing large components to be tested safely.



PDP 8000 - Differential Impulse Measuring Probe

Verify impulse generator wave-shapes with added confidence using the new PDP8000 differential probe. Conventional high voltage measurement probes are complicated and time consuming to set-up. Differential impulse measurement probe PDP 8000 replaces the conventional 2 probe method with a simple unit and no set-up time.

Download (pdf) more information and technical data [here](#).



VTM 15000 - Impulse Transformer for Insulation Testing

The VTM15000 is used for insulation testing with lightning impulses. It runs together with a combination wave generator such as PIM 100 or PSUGRE4010. The output voltage of the generator is doubled, the voltage waveshape remains the same.

Download (pdf) more information and technical data [here](#).

