



PowerSources GmbH, Meerbusch (formerly Rudolf zur Bensen, Duesseldorf) has been producing all types of power supplies at any power level since 1948. The company specialises in manufacturing high voltage and high current devices. HV-Transformer designers are available as air insulated versions up to 15kV and 30 kVA power or in cast resin vacuum technology up to 200kV and 30kVA output power. All transformers are manufactured to individual customer specifications, single or three phase. Either high voltage output or insulation transformers can be provided.

### High Voltage and Insulation Transformers

- Low + Medium Power
- Dry Type
- Cast Resin
- up to 200kV
- 1~ up to 10kVA
- 3~ up to 30kVA
- single phase
- three phase
- 2.5Hz up to 100kHz



### High Voltage Test Systems



- Comet HV-Tester
- HV-Power Supplies for Tube RF-Generators
- Test Systems for Motors and Trains
- Electron Beam Power Supplies

since  
**1948**

**60 Years of Power**



Production of HV-Components and Systems since 1948

### Product Range:

|                            |                  |
|----------------------------|------------------|
| HV transformers            | Power Generators |
| HV Test Systems            | UPS Systems      |
| HV Power Supplies          | SoftStarter      |
| RF-Generators for Industry |                  |

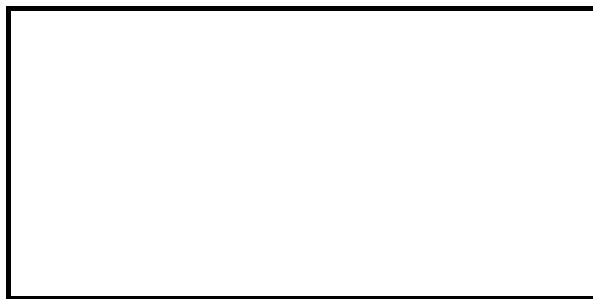
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### Your Dealer:



### MOBILE HIGH VOLTAGE TESTER

### HVDC



■ 70kV – 1000µA  
■ 100kV – 500µA

### FOR TESTING OF



**VACUUM  
CAPACITORS**

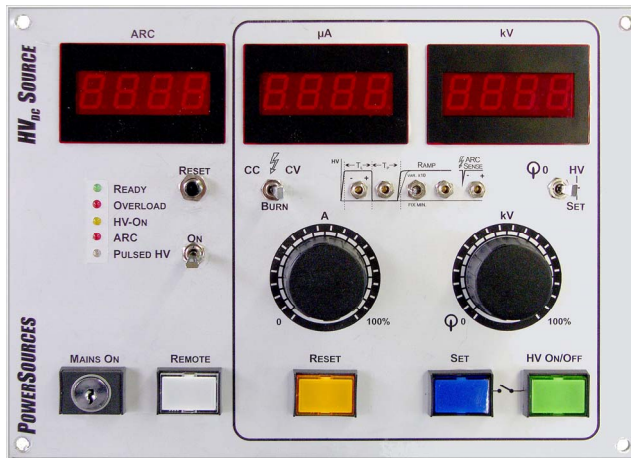
This unit incorporates 15years of experience in the field of Vacuum Capacitor testing and manufacturing support.

**PowerSources** appreciates the support and technical knowledge of the Comet Group contributing to this design of this 2<sup>nd</sup> Generation significantly.

**60 YEARS OF POWER**

*The New Dimension*

## THE DC-SYSTEM TEST UNIT



### UNIQUE FEATURES:

- Up to 100kVp test voltage, allows testing of all existing Comet Vacuum Capacitors
- Dual Hand HV On / Off operation
- Pre-adjustable High Voltage and Current Levels with no HV-output
- Ultra slow ramp for fully automatic HV-Processing
- Autofold Ramp Speed Arc Feed Back
- True Peak Voltage Detection
- Unique multi stage Burn Mode with safe or aggressive ARC handling for Production and Field Conditioning Service
- High Speed Arc detection with pre-selectable Arc tripping in Pulse and CW-Mode
- Selectable Zero Voltage forced Start Option for max. Safety demand
- Repetitive Auto HV Set Level for testing in series production environment (suppression of Zero Start Option)
- 100% Mobility with Real High Voltage testing
- Only 12.8kg

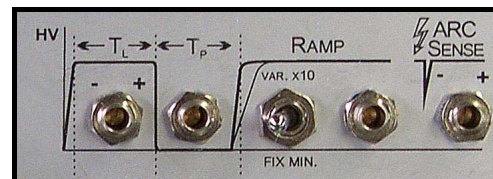
## DISPLAYS & INDICATORS

- ⇒ Clearly Visible 3 1/2 digit LED Instruments for Arc-Counter Voltage and Current
- ⇒ Illuminated Push Buttons for
- ⇒ Reset Overload
- ⇒ Set (Voltage or current) and Start Lock
- ⇒ HV-On
- ⇒ LED Indicators:



## CONTROLS AND MODE SELECTOR SETTINGS

- ⇒ 10 turn high resolution HV Output for voltage and current setting
- ⇒ CC / Burn / CV
- ⇒ HV-ramping selectable (pulse and CW) Min. / x1 / x10
- ⇒ Pulse Length T1 / Pulse Pause T2
- ⇒ Arc Sense HV<sub>test</sub> / I<sub>max</sub> Set



- ⇒ Zero-Start off-on
- ⇒ Reset / Set / HV on/Off
- ⇒ Overload Manual / Auto Reset
- ⇒ Reset Delay Timer
- ⇒ KeyLock Mains on

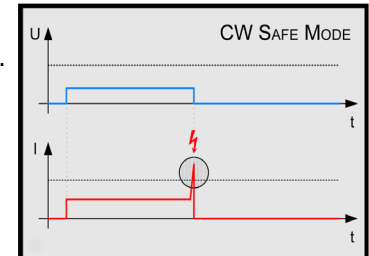
## INTERFACES + CONNECTORS

- ⇒ HV Mon. U / I
- ⇒ HV out
- ⇒ Remote Panel
- ⇒ Mains in

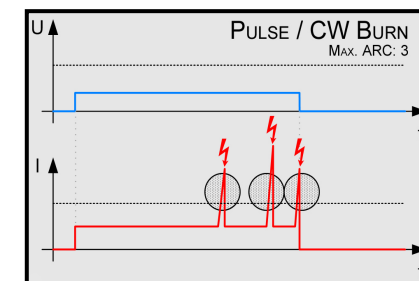
## CC + CW MODE – SAFE BURN

Immediate HV shut off in case of ARC or overload. Max. safety for load and operator.

- ⇒ Reset manually or
- ⇒ Reset automatic, Timer operated.
- ⇒ HV<sub>test</sub> / I<sub>max</sub> Set
- ⇒ Zero-Start HV-On or Start at HV-SET voltage level



## BURN + PULSE / CW MODE



No HV shut off in case of ARC  
**CW:** Test Mode with fastest and strongest possible HV conditioning function.

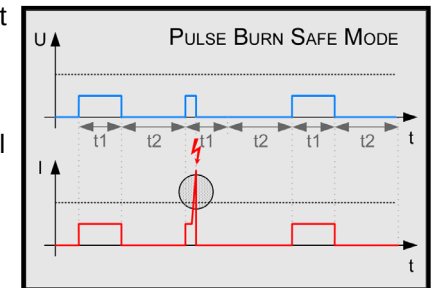
**Pulse Mode:** Pause allows load recovering pause.

## CC + PULSE MODE – ULTRA SAFE BURN

Immediate HV shut off in case of ARC or overload.

Auto-Restart with next pulse (Manual Reset).

Auto Reset may allow restart in the same pulse top.



Conditioning Mode with max. cure for load (Manual Reset) – depending on allowed pulse pause.

Individual Arc Handling allows wide range of optimization for production processes. Recovering time is a key issue for most careful HV processing.

Fast HV Conditioning may result in missing the optimum product performance.