



PS100

Power Supply
Variable AC / DC

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Introduction

Weis is a specialist company with over 20 years of experience in the commissioning, testing & maintenance of switchgear and power network fault monitoring within the Power Utility Industry.

The **PS100** Power Supply is a variable power source, mainly for Switchgear Testing and is an instrument intended for use in Power Station, Substation & industrial environments.

As Station Batteries should not be used or interfered with, the **PS100** provides an ideal alternative power source for testing the breaker, as well as for minimum operating voltage testing of breaker coils, as laid out in international rules and regulations.

Also available within our range of switchgear test equipment:

- ▶ **SA100**, Switchgear Analyser

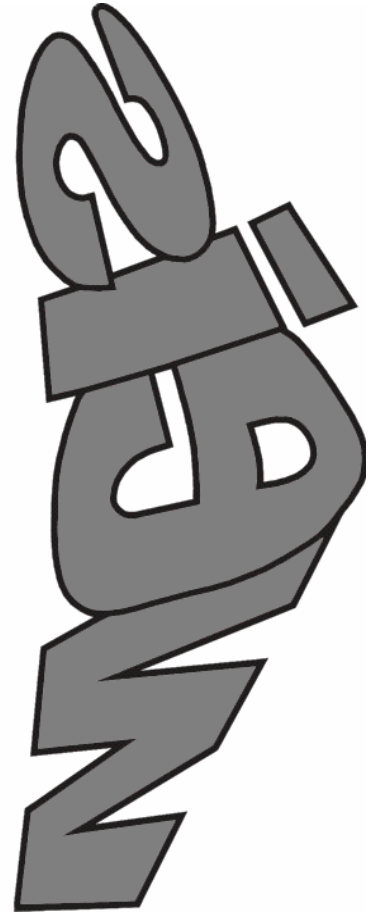
- ▶ **SA100R**, Switchgear Analyser

- ▶ **SA100s**, Breaker Timing Test Set

- ▶ **MM100**, Micro-ohm Meter

- ▶ **RT100**, Secondary Injection Relay Test Set

- ▶ **SA200**, Automated Factory Test System



Specifications

OUTPUT

AC Power: 0 to 280V AC
20A peak, 1s load interval

DC Power: 0 to 280V DC
20A peak, 1s load interval

Ripple: < 2%

OUTPUT CHARACTERISTICS

DC Breaker Coils:

No-load Voltage	Current	Load Dependency
24V	10A	< 5%
48V	10A	< 3%
55V	10A	< 3%
110 / 120V	8A	< 2%
220 / 240V	3A	< 2%
280V	1.5A	< 2%

AC Breaker Coils:

Voltage Range	Load Current	Load Interval
0-280V AC	6A max.	30min max.

DC Spring Charging:

Open Circuit Voltage	Current	Load Voltage	Max. Load Interval
24V	20A	20V	30s
48V	15A	40V	60s
55V	20A	40V	30s
110 / 120V	15A	95V	40s
220 / 240V	10A	190V	30s



MEASUREMENT

Readout: 3 digit backlight LCD display

Resolution: 1V steps

Displayed Values: AC Voltage
AC Current
DC Voltage
DC Current

Accuracy: +/- 1% of displayed value

OPERATING VOLTAGES

Fixed Prime Power: 220 to 240V 50/60Hz
or
110 to 120V 50/60Hz
Specify at order point

ENVIRONMENTAL

Operating Temperature: -20°C to +70°C (-4°F to +158°F)

Humidity: 0 to 97% RH non-condensing

Isolation: 2kV rms for 1 minute

Surge Withstand Transient: To IEC 801-5. 1.2/50µS
Common Mode: Severity level class 4. Series Mode: Severity level class 3

Fast Transient Burst: To IEC 801-4 level 3

RFI Immunity: To IEC801-3 level 3. 10V/m 26-1000MHz

Emissions: To EN50081-1: 1992



MECHANICAL DETAILS

Weight: < 20Kg

Carry Case: Reinforced aluminium, 340mm x 240mm x 150mm

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