PS300

Power Supply
Variable AC / DC

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Introduction

Weis is a specialist company with over 40 years of experience in the commissioning, testing & maintenance of switchgear and power network fault monitoring within the Power Utility Industry.

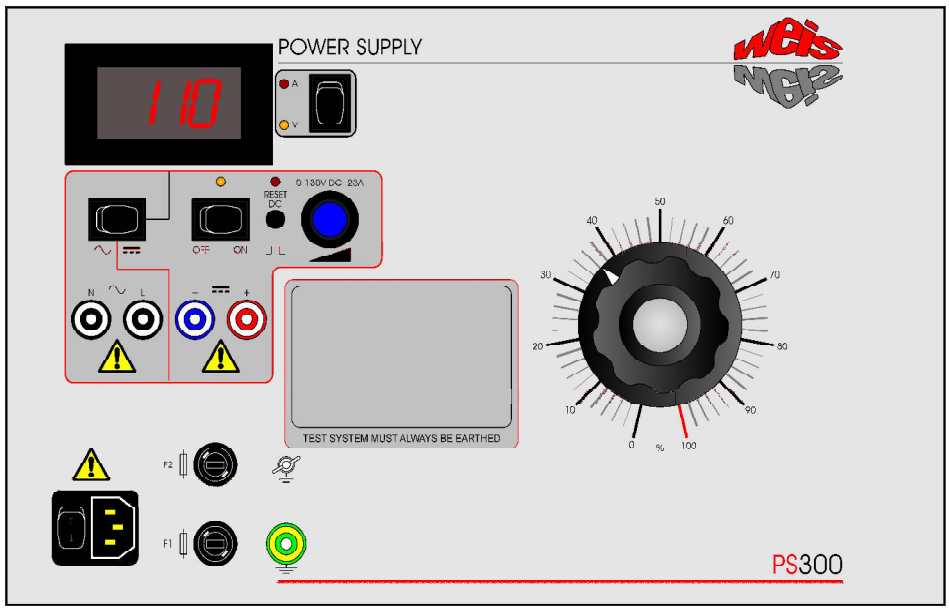
The PS300 Power Supply is a variable power source, mainly for Switchgear Testing and is an instrument intended for use in Power Station, Substation & industrial environments.

As Station Batteries should not be used or interfered with, the PS300 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.

The PS300 has a specially developed 'application driven' circuit designed to deliver a very stable voltage output (0 to 130Vdc) combined with a fast responding high current (23A maximum).

Also available from Weis:

- SA100, Switchgear Analyser
- SA100R, Switchgear Analyser
- SA100RS, Breaker Analyser
- SA100s, Breaker Timing Test Set
- MM100, Micro-ohm Meter
- MM200, Micro-ohm Meter
- MM600, Micro-ohm Meter
- RT100, Secondary Injection Relay Test Set
- SA200, Automated Factory Test System



PS300

Specifications

OUTPUT

AC Power:	0 to 280V AC 50A peak
DC Power:	0 to 280V DC 50A peak
DC Power 130VDC/23A Mode:	0 to 130V DC 23A peak
Ripple:	< 2%

OUTPUT CHARACTERISTICS

DC Breaker Coils 130VDC/23A Mode:

No-load Voltage	*Current*	*Load Dependency*
0-130V DC	0-23A	< 2.5%

Safety cut-out timer with 1000mS duration,
2.1A start threshold and manual reset

DC Breaker Coils:

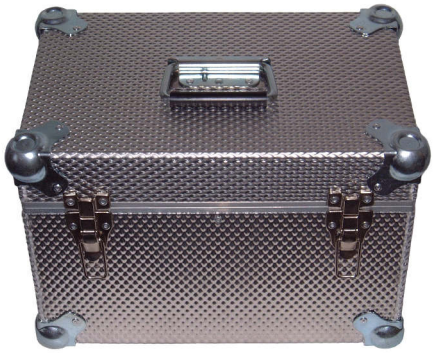
No-load Voltage	*Current*	*Load Dependency*
24V DC	10A	< 5%
48V DC	10A	< 3%
55V DC	10A	< 3%
110 / 120V DC	8A	< 2%
220 / 240V DC	3A	< 2%
280V DC	1.5A	< 2%

AC Breaker Coils:

Voltage Range	*Load Current*	*Load Interval*
0-280V AC	10A max.	30min max.

DC Spring Charging:

Open Circuit Voltage	*Current*	*Load Voltage*	*Max. Load Interval*
24V DC	20A	20V	30s
48V DC	15A	40V	60s
55V DC	20A	40V	30s
110 / 120V DC	15A	95V	40s
220 / 240V DC	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 *Auto-sensing*

ENVIRONMENTAL

Operating Temperature:	-20ºC to +70ºC (-4ºF to +158ºF)
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:	< 28Kg
Carry Case:	Reinforced aluminium, 370mm wide x 245mm deep x 320mm high

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