

The Power Sources generate and deliver precision high power voltage and current signals for high volume calibration and testing of electricity meters and measuring devices.

Highlights

- Modular design with simple customization.
- Signal generation based on digital synthesis of the signal waveform.
- High efficiency of power output stages with extremely high fidelity and noise-free output.
- Switch mode output stage with efficiency better than 85 %.

Technical data

Voltage		Type
RMS voltage range (Phase - Neutral)	1 x 30 V .. 300 V (500 V optional)*	PS 81xx
	3 x 30 V .. 300 V (500 V optional)*	PS 83xx
Resolution	< 0,01 %	
Stability	< 0,005 % / h (integration time 60 sec)	
Distortion factor	< 0,3 %	
	< 0,2 % typical	
Accuracy	< 0,02 %	when used with RS 2x30A
	< 0,01 %	when used with RS 2x30E
	< 0,005 %	when used with RS 2x30S
Current		Type
RMS current range	1 x 1 mA .. 120 A (160 A optional)*	PS 81xx
	3 x 1 mA .. 120 A (160 A optional)*	PS 83xx
Resolution	< 0,01 %	
Stability	< 0,005 % / h (integration time 60 sec)	
Distortion factor	< 0,3 %	
	< 0,2 % typical	
Accuracy	< 0,02 %	when used with RS 2x30A
	< 0,01 %	when used with RS 2x30E
	< 0,005 %	when used with RS 2x30S
Phase Angle		Type
Range	0 ° .. 360 °	
Resolution	< 0.01 °	
	< 0,5 °	
Setting accuracy	< 0,02 °	when used with RS 2x30A
	< 0,01 °	when used with RS 2x30E
	< 0,005 °	when used with RS 2x30S

* Other configurations available on request



PS 8315 – 8325



PS 8303 - 8310



Power source PS 8101

Frequency			
Fundamental frequency range		40 Hz .. 70 Hz	
Resolution		< 0,002 Hz	
Accuracy		< 0,002 Hz	
Output Power		Single-phase models	Three-phase models
	100 VA / 100 VA	PS 8101B	PS 8301B
	600 VA / 600 VA	PS 8106B	PS 8306B
	1000 VA / 1000 VA	PS 8110B	PS 8310B
Current / Voltage	1500 VA / 1500 VA	PS 8115B	PS 8315B
	2000 VA / 2000 VA	PS 8120B	PS 8320B
	2500 VA / 2500 VA	PS 8125B	PS 8325B
	1000 VA / 2800 VA	PS 8128B	PS 8328B

General data

Harmonics	<ul style="list-style-type: none"> Free programmable Pre-programmed test patterns according to Standard IEC 1036
Test signals	Ripple control signals Dips, swells, Interruptions
Interfaces	RS 232 (SCPI compatible communication protocol)
Output protection	Short circuit, Open circuit, Thermal muting, Residual current device on Voltage output
Dimensions	19" Rack system
Operating temperature	+10 ... +50 °C
Storage temperature	20 ... +60 °C

Options / Accessories

PS 8xxxp/50cc	Max. output voltage extension from 300 V to 500 V
PS 8xxxp/vv16	Max. output current extension from 120 A to 160 A
PS 8xxxp/vv20	Max. output current extension from 120 A to 200 A
HWR 1112B	Single - Phase Half Wave Rectifier - enables meter testing according to IEC 62053-21 Appendix A.1 (D.C. and even harmonics)
HWR 1312B	Three - Phase Half Wave Rectifier - enables meter testing according to IEC 62053-21 Appendix A.1 (D.C. and even harmonics)