

## PPS 3.3 C

Three-phase Portable Power Source for voltage up to 480 V and current up to 120 A



The PPS 3.3 C is a powerful and portable three-phase current and voltage source. All test values are generated absolutely synthetically with a high degree of accuracy and stability.

### Advantages of the PPS 3.3 C

- Three-phase portable precision type source with single-phase mains supply
- Current and voltage source facilities can be selected independently
- Color display with graphical interface
- Indication of load values, vector diagram and waveform
- Current, voltage and phase shift are adjustable to high accuracy individual per phase

- The values are shown on a display and can be read out via the RS 232 C interface
- The values set are stabilised by digital and analogue control
- Integrated RS 232 C interface for external program control via PC. It is possible to read out the current and voltage values
- Generation of harmonics (up to 31<sup>st</sup>)
- Generation of ripple control signals

### Options

- Software CAMCAL for Windows or CALSOFT

## Technical Data PPS 3.3 C

General		Description
Supply voltage		88 VAC <sub>min</sub> ... 264 VAC <sub>max</sub> , 47 ... 63 Hz
Power consumption		400 VA <sub>max</sub>
Housing		Hard plastic
Dimensions	Width x Height x Depth	465 x 210 x 375 mm
Weight		approx. 21.5 kg
Ambient temperature	Operating range	-10 °C ... +50 °C
Storage temperature		-20 °C ... +60 °C
Relative humidity		≤ 85 % at Ta ≤ 21 °C
Relative humidity at 30 days / year		≤ 95 % at Ta ≤ 21 °C
Safety Requirements		
CE-certified		
Isolation protection		IEC 61010-1:2001
Measurement Category		IP-40
Degree of protection		300 V CAT III, 600 V CAT II
Voltage source		
Voltage range	Phase – Neutral / Phase – Phase	3 x 0.1 / 0.17 V ... 480 / 831 V
Output power	Per Phase	30 VA
Internal ranges / Peak values	300 V ... 480 (600) V	30 VA / 0.05 A
	150 V ... 300 V	30 VA / 0.10 A
	75 V ... 150 V	30 VA / 0.20 A
	30 V ... 75 V	30 VA / 0.40 A
Resolution		0.1 V
Accuracy		0.3 % (45 Hz ... 100 Hz)
Distortion factor		< 0.8 %
Stability		0.03 % (30 min) / 0.1 % (1 h)
Bandwidth		30 ... 2'000 Hz (3 dB)
Current source		
Current range		3 x 1 mA ... 3 x 120 A
Output power	Per Phase	60 VA
Internal ranges / Peak values	10 A ... 120 A	60 VA / 0.5 V
	1 A ... 10 A	25 VA / 2.5 V
	1 mA ... 1 A	10 VA / 10 V
Resolution		min. 1 mA
Accuracy		0.5 % (45 Hz ... 100 Hz)
Distortion factor		< 0.8 %
Stability		0.03 % (30 min) / 0.1 % (1 h)
Bandwidth		30 ... 1'000 Hz (3 dB)
Phase angle		
Range		-180.0 ° ... +180.0 °
Resolution		0.1 ° (45 ... 100 Hz) / 1 ° (>100 Hz)
Frequency		
Range		45 Hz ... 400 Hz
Resolution		0.1 Hz (45 ... 100 Hz) / 1 Hz (>100 Hz)

