MTE Meter Test Equipment

PPS 3.3 genX

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

The PPS 3.3 genX 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 genX

- Three-phase portable precision type source with single-phase mains supply
- Current and voltage source facilities can be selected independently
- Large 9” (800 x 480 pixels) TFT touch screen colour display with graphical user interface
- Indication of load values, vector diagram and waveform
- Current, voltage and phase shift are adjustable to high accuracy individual per phase
- The values set are stabilised by digital and analogue control
- Generation of harmonics (up to 31st)
- Generation of ripple control signals
- Data transfer and communication via USB (Type B), ETHERNET or WLAN
- Built in web server for remote display of graphical user interface and remote control of the unit
- Data storage on removable SD memory card
- Two USB (type A) connectors for connection of peripherals like mouse, keyboard

Options

- Software CALegration

Technical Data PPS 3.3 genX

General

Auxiliary power supply:	88 VACmin ... 264 VACmax / 47 … 63 Hz Protection: Switch off supply at > 276 VAC
Power consumption:	max. 500 VA
Housing:	Hard Plastic
Dimensions:	W 470 x D 320 x H 253 mm
Weight:	approx. 23 kg
Operation temperature:	-10 °C ... +50 °C
Storage temperature:	-20 °C ... +60 °C
Relative humidity:	≤ 85% at Ta ≤ 21°C
	≤ 95% at Ta ≤ 25°C, 30 days / year spread
Safety	CE
Isolation protection:	IEC 61010-1:2010
Measurement Category:	300V CAT III, 600V CAT II
Degree of protection:	IP-68 (housing closed)
	IP-40 (housing open)

Power Source - Ranges

Voltage Range	30 V … 480 V	
Output power	30 VA (per phase)	
	Internal Ranges	Smax / Imax
	30 V … 60 V	30 VA / 0.5 A
	60 V … 120 V	30 VA / 0.25 A
	120 V … 240 V	30 VA / 0.125 A
	240 V … 480 V	30 VA / 0.0625 A
Power factor of the load	0.5 cap – 1 – 0.1 ind	
Current Range	1 mA … 120 A	
Output power	60 VA (per phase)	
	Internal Ranges	Smax / Umax
	1 mA … 12 mA	60 mVA / 5 V
	12 mA … 120 mA	600 mVA / 5 V
	120 mA … 1.2 A	6 VA / 5 V
	1.2 A … 12 A	60 VA / 5 V
	12 A … 80 A	60 VA / 0.75 V
	80 A … 120 A	60 VA / 0.5 V
Power factor of the load	1 – 0.1 ind	

Power Source - Accuracy

Resolution U, I	0.01 % of end of internal range		
Accuracy U, I	≤ 0.1 % of end of internal range		
Distortion Factor U, I	≤ 0.25 % on linear load		
Stability U, I	≤ 0.03 % (30 min.) ≤ 0.1 % (1 h)		
Load Regulation U, I	≤ 0.01 % (from 0 % … 100 % load)		
Bandwidth U, I	30 Hz … 3 kHz (-3 dB)		
Efficiency U, I	> 85 %		
	Range	Accuracy	Resolution
Phase Angle	-180° ..+180°	± 0.1°	0.01°
Frequency	40 Hz-70 Hz	± 0.01 Hz	0.01 Hz
Mode Sync (to input voltage)	40 Hz-70 Hz		