

4TECT

ООО «4TECT»

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FLUKE®

Calibration



6003A Three Phase Power Calibrator Extended Specifications

Specifications

This section gives the general and detailed specifications of the Product.

Input Power

| | |
|---------------------|--------------------|
| Voltage | 115 V, 230 V ±10 % |
| Frequency | 47 Hz to 63 Hz |
| Maximum consumption | 1875 VA max |

Dimensions

| | |
|-----------------------|----------------------|
| Height | 415 mm (16.3 inches) |
| Height (without feet) | 402 mm (15.8 inches) |
| Width | 430 mm (16.9 inches) |
| Depth | 640 mm (25.2 inches) |
| Weight | 62 kg (136 lb) |

Environment

| | |
|--|---|
| Operating temperature | 5 °C to 40 °C |
| Calibration temperature (Tcal) range | 21 °C to 25 °C |
| Storage temperature | -10 °C to 55 °C |
| Transit temperature | -15 °C to 60 °C |
| Warm up time | 1 hour |
| Safe operating max. relative humidity (non-condensing) | <80 %, 5 °C to 31 °C ramping linearly down to 50 % at 35 °C |
| Storage max. relative humidity (non-condensing) | <90 %, -10 °C to 55 °C |
| Operating altitude | 2,000 m maximum |
| Storage altitude | 12,000 m maximum |
| Shock | MIL-PRF-28800F class 3 |
| Vibration | MIL-PRF-28800F class 3 |
| Enclosure | MIL-PRF-28800F class 3 |

Safety

IEC61010-1, IEC 61010-2-030, Overvoltage category II, Pollution Degree 2

EMC

IEC 61326-1, Controlled

General Electrical

| | |
|--|--|
| Voltage/Current amplitude setting resolution | 5.5 digits |
| Range of fundamental frequencies | 15 Hz to 1 kHz |
| Line frequency locking | 45 Hz to 65.9 Hz at user discretion |
| Frequency accuracy | ±50 ppm |
| Frequency setting resolution | 0.001 Hz for 15 Hz to <500 Hz, 0.01 Hz 500 Hz to 1 kHz |
| Warm up time to full accuracy | The shorter of 1 hour or twice the time since last warmed up |
| Settling time following change to the output | 3 seconds maximum |
| Nominal angle between voltage phases | 120 ° |
| Nominal angle between voltage and current of a phase | 0 ° |
| Phase angle setting | 0 ° to 359.99 ° |
| Phase angle setting resolution | 0.01 ° |

Electrical Specifications

The product specifications describe the Absolute Instrumental Uncertainty of the Product. The product specifications include stability, temperature, and humidity; within specified limits, linearity, line and load regulation, and the reference standard measurement uncertainty. The product specifications are stated at a confidence limit of 99 %, k=2.58, normally distributed.

Temperature Coefficient

Add 0.1x spec /°C for temperature ranges outside of Tcal ±2 °C. For example, for Tcal = 23 °C, the specification at 11 °C and 35 °C is 2 times the nominal specification.

Voltage

Voltage Channel Maximum Capacitive Loading for Output Stability

The voltage output remains stable up to a 100 nF load but may not be able to drive that capacitance at all voltage/frequency/harmonic combinations due to burden current limitations.

Voltage Range Limits and Burden

| Range | 1.0000 V to 10 V | 10.0001 V to 30 V | 30.001 V to 70 V | 70.001 V to 140 V | 140.001 V to 280 V | 280.001 V to 600 V ^[1] |
|--|------------------|-------------------|------------------|-------------------|--------------------|-----------------------------------|
| Maximum Burden Current (peak) 40 Hz - 70 Hz ^{[2] [4]} | 141 mA | 283 mA | 424 mA | 424 mA | 283 mA | 85 mA |
| Maximum Burden Current (RMS) 40 Hz - 70 Hz ^{[2] [4]} | 100 mA | 200 mA | 300 mA | 300 mA | 200 mA | 60 mA |
| Maximum Burden Current (RMS) dc, 15 Hz to 40 Hz, 70 Hz to 1000 Hz ^{[2] [4]} | 100 mA | 200 mA | 200 mA | 200 mA | 150 mA | 50 mA ^{[3] [4]} |

[1] 600 V range is ac only, and limited to the fundamental frequency, i.e. no additional harmonics can be generated
 [2] Sum of all currents from three phases is limited to 400 mA RMS
 [3] 600 V range cannot output dc.
 [4] Maximum burden current is reduced in Power Harmonic, Power Interharmonics and Dip/Swell modes by a factor of 0.707 times the values shown. For example, the maximum burden current for a 10 V, 50 Hz harmonic output is 70.7 mA.

Voltage Sine Amplitude

| Ranges | Frequency | 1-Year Specification, Tcal ±2 °C ± (% of output + V) | |
|------------------------|-----------------|--|-------|
| 1.0000 V to 10.0000 V | 15 Hz to 40 Hz | 0.016 | 1 mV |
| | 40 Hz to 70 Hz | 0.012 | 1 mV |
| | 70 kHz to 1 kHz | 0.016 | 1 mV |
| 10.0001 V to 30.000 V | 15 Hz to 40 Hz | 0.016 | 3 mV |
| | 40 Hz to 70 Hz | 0.012 | 3 mV |
| | 70 kHz to 1 kHz | 0.016 | 3 mV |
| 30.001 V to 70.000 V | 15 Hz to 40 Hz | 0.016 | 7 mV |
| | 40 Hz to 70 Hz | 0.012 | 7 mV |
| | 70 kHz to 1 kHz | 0.016 | 7 mV |
| 70.001 to 140.000 V | 15 Hz to 40 Hz | 0.016 | 14 mV |
| | 40 Hz to 70 Hz | 0.012 | 14 mV |
| | 70 kHz to 1 kHz | 0.016 | 14 mV |
| 140.001 V to 280.000 V | 15 Hz to 40 Hz | 0.016 | 28 mV |
| | 40 Hz to 70 Hz | 0.012 | 28 mV |
| | 70 kHz to 1 kHz | 0.016 | 28 mV |
| 280.001 V to 600.000 V | 20 Hz to 40 Hz | 0.024 | 60 mV |
| | 40 Hz to 70 Hz | 0.016 | 60 mV |
| | 70 kHz to 1 kHz | 0.024 | 60 mV |

Voltage DC

| Range | 1-Year Specification, Tcal ±2 °C ± (% of output + V) | |
|------------------------|--|-------|
| 1.0000 V to 10.0000 V | 0.015 | 1 mV |
| 10.0001 V to 30.0000 V | 0.015 | 3 mV |
| 30.001 V to 70.0000 V | 0.015 | 7 mV |
| 70.001 V to 140.000 V | 0.015 | 14 mV |
| 140.001 V to 280.000 V | 0.015 | 28 mV |

Voltage Distortion

<0.05 % 15 Hz to 200 kHz bandwidth

Current

Current Range Limits and Compliance

| Range | 8.000 mA to 300.000 mA | 0.30001 A to 1.00000 A | 1.00001 A to 2.00000 A | 2.00001 A to 5.00000 A | 5.0001 A to 10.0000 A | 10.0001 A to 30.0000 A | 90 mA to 90.0000 A ^[1] |
|--|------------------------|------------------------|------------------------|------------------------|-----------------------|------------------------|-----------------------------------|
| Maximum Compliance Voltage (dc/peak) ^[3] | 8 | 8 | 8 | 5 | 5 | 5 | 5 |
| Maximum Compliance Voltage (RMS) 15 Hz to 400 Hz ^[3] | 5.5 | 5.5 | 5.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| Maximum Compliance Voltage (RMS) 400 kHz to 1 kHz ^[3] | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| Maximum Inductive Load ^[2] | 1 mH | 1 mH | 1 mH | 1 mH | 1 mH | 1 mH | 1 mH |

[1] 90 A range is available in the Current High I mode

[2] Voltage compliance developed across inductive loads may limit the maximum current output being achieved at higher frequencies. The maximum frequency (Fmax) for a given load inductance and current is given by $F_{max} = V_c / (2 * \pi * I * L)$, where Vc is the maximum RMS compliance voltage.

[3] Maximum burden voltage is reduced in Power Harmonic, Power Interharmonic and Dip/Swell modes by 0.707 times the values shown above. For example, the maximum burden voltage for a 1 A, 50 Hz harmonic output is 3.89 V.

Current Sine Amplitude

| Range (Amps) | Frequency | 1-Year Specification, Tcal ±2 °C ±(% of output + A) | |
|-----------------------------------|----------------|---|---------|
| 8.000 mA to 300.000 mA | 15 Hz to 40 Hz | 0.021 | 60 µA |
| | 40 Hz to 70 Hz | 0.0175 | 30 µA |
| | 70 Hz to 1 kHz | 0.021 | 60 µA |
| 0.30001 A to 1.00000 A | 15 Hz to 40 Hz | 0.021 | 200 µA |
| | 40 Hz to 70 Hz | 0.0175 | 100 µA |
| | 70 Hz to 1 kHz | 0.021 | 200 µA |
| 1.00001 A to 2.00000 A | 15 Hz to 40 Hz | 0.021 | 400 µA |
| | 40 Hz to 70 Hz | 0.0175 | 200 µA |
| | 70 Hz to 1 kHz | 0.021 | 400 µA |
| 2.00001 A to 5.00000 A | 15 Hz to 40 Hz | 0.021 | 1 mA |
| | 40 Hz to 70 Hz | 0.0175 | 500 µA |
| | 70 Hz to 1 kHz | 0.021 | 1 mA |
| 5.0001 A to 10.0000 A | 15 Hz to 40 Hz | 0.028 | 2 mA |
| | 40 Hz to 70 Hz | 0.021 | 1.5 mA |
| | 70 Hz to 1 kHz | 0.028 | 2 mA |
| 10.0001 A to 30.0000 A | 15 Hz to 40 Hz | 0.035 | 6 mA |
| | 40 Hz to 70 Hz | 0.0245 | 4.5 mA |
| | 70 Hz to 1 kHz | 0.035 | 6 mA |
| 90 mA to 90.0000 A ^[1] | 15 Hz to 40 Hz | 0.035 | 18 mA |
| | 40 Hz to 70 Hz | 0.0245 | 13.5 mA |
| | 70 Hz to 1 kHz | 0.035 | 18 mA |

[1] 90 A range is available in the Current High I mode

Current DC

| Range | 1-Year Specification, Tcal ±2 °C ±(% of output + A) | |
|-----------------------------------|---|---------|
| 8.000 mA to 300.000 mA | 0.0175 | 30 µA |
| 0.30001 A to 1.00000 A | 0.0175 | 100 µA |
| 1.00001 A to 2.00000 A | 0.0175 | 200 µA |
| 2.00001 A to 5.00000 A | 0.0175 | 500 µA |
| 5.0001 A to 10.0000 A | 0.021 | 1.5 mA |
| 10.0001 A to 30.0000 A | 0.0245 | 4.5 mA |
| 90 mA to 90.0000 A ^[1] | 0.0245 | 13.5 mA |

[1] 90 A range is available in the Current High I mode

Current Distortion

<0.1 %, 15 Hz to 200 kHz bandwidth

Current Output Isolation (high or low terminal)

450 V peak maximum above earth ground. The current output terminals must only be energized by the Product Voltage output terminals.

Voltage from the Current Terminals (DC and Sine Wave Only)

Range Limits and Impedances

| Range | 1.000 mV to 20.000 mV | 20.001 mV to 330.000 mV | 0.33001 V to 5.00000 V |
|--|-----------------------|-------------------------|------------------------|
| Source Impedance | 1 Ω | 1 Ω | 18 Ω |
| Minimum load impedance to maintain specification | 25 kΩ | 25 kΩ | 450 kΩ |

Voltage from Current Terminals

| Range | Frequency | 1-Year Specification, Tcal 2°C ±(% of output + V) | |
|-------------------------|-----------------|---|--------|
| 1.000 mV to 20.000 mV | dc | 0.05 | 20 μV |
| | 15 Hz to 400 Hz | 0.05 | 20 μV |
| 20.001 mV to 330.000 mV | dc | 0.05 | 200 μV |
| | 15 Hz to 400 Hz | 0.05 | 200 μV |
| 0.33001 V to 5.00000 V | dc | 0.05 | 1 mV |
| | 15 Hz to 400 Hz | 0.05 | 1 mV |

Voltage from Current Terminals, Distortion

<0.1 %, 15 Hz to 200 kHz bandwidth

Phase and Power Factor (Sine Wave Outputs)

| | |
|-------------------------|---|
| Phase range | 0.0 ° to 359.99 ° |
| Frequency range | 15 Hz to 1 kHz |
| Phase resolution | 0.01 ° |
| Power factor range | -1 to +1 (Lead, Lag) |
| Power factor resolution | 0.001 |
| Power factor accuracy | $(1 - \cos(\varphi + d\varphi)) / \cos \varphi$ where φ is the phase in degrees and $d\varphi$ is the phase specification in degrees. |

Current to Voltage Phase

| For All Voltage Outputs (1 V to 600 V) | | |
|--|------------------|----------------------------------|
| Current Output | Frequency | 1-Year Specification, Tcal ±2 °C |
| 0.008 A to 0.099999 A | 15 Hz to 70 Hz | 0.05 ° |
| | 70 Hz to 400 Hz | 0.1 ° |
| | 400 kHz to 1 kHz | 0.4 ° |
| 0.1 A to 10 A | 15 Hz to 70 Hz | 0.01 ° |
| | 70 Hz to 400 Hz | 0.1 ° |
| | 400 kHz to 1 kHz | 0.4 ° |
| 10.0001 A to 30 A | 15 Hz to 70 Hz | 0.05 ° |
| | 70 Hz to 400 Hz | 0.1 ° |
| | 400 kHz to 1 kHz | 0.4 ° |

For voltage from the current terminals, use the 0.1 A to 10 A phase specification for > 40 % of range and 0.008 A to 0.099999 A for ≤40 % of range. There are three voltage ranges, 20 mV, 330 mV and 5 V.

Voltage to Voltage Phase

| For All Voltage Ranges (1 V to 600 V) | |
|---------------------------------------|----------------------------------|
| Frequency | 1-Year Specification, Tcal ±2 °C |
| 15 Hz to 70 Hz | 0.01 ° |
| 70.001 Hz to 400 Hz | 0.1 ° |
| 400.001 kHz to 1 kHz | 0.4 ° |

Power

The power specifications below are valid for sinusoidal outputs for voltage, current, and frequencies shown. They are not valid when any harmonics, modulation (flicker), interharmonics, or dips/swells are applied.

To calculate the power specification for any specific voltage, current, and power factor outputs, use this formula:

$$dP = \sqrt{(dV^2 + dI^2 + dPF^2 + 0.01^2)} \text{ (\%)}$$

where dV is the specification of the voltage, dI is the specification of the current, dPF is the specification of the power factor; all expressed as a %.

Example calculations:

Output 230 V, 20 A, PF = 1. 230 V has a specification of (0.012 % of output + 28 mV) or 0.024 %. 20 A has a specification of (0.0245 % + 4.5 mA), or 0.047 %. The phase specification for this output is 0.05 °. At PF = 1 the power factor specification is 0.0000 %. Applying the power specification formula, this gives

$$\sqrt{(0.024^2 + 0.047^2 + 0.00^2 + 0.01^2)} = 0.054 \%$$

Output 115 V, 3 A, PF = 0.8. 115 V has a specification of (0.012 % of output + 14 mV) or 0.024 %. 3 A has a specification of (0.0175 % + 500 µA), or 0.034 %. The phase specification for this output is 0.01 °. At PF = 0.8 the power factor specification is 0.0131 %. Applying the power specification formula, this gives

$$\sqrt{(0.024^2 + 0.034^2 + 0.0131^2 + 0.01^2)} = 0.045 \%$$

Output 280 V, 5 A, PF = 0.5. 280 V has a specification of (0.012 % of output + 28 mV) or 0.022 %. 5 A has a specification of (0.0175 % + 500 µA), or 0.028 %. The phase specification for this output is 0.01 °. At PF = 0.5 the power factor specification is 0.0302 %. Applying the power specification formula, this gives

$$\sqrt{(0.022^2 + 0.028^2 + 0.0302^2 + 0.01^2)} = 0.047 \%$$

Sinusoidal Power Specification at 40 Hz to 70 Hz, Power Factor 1.0 (%)

| Current Output | Voltage Output | | | | | |
|----------------|----------------|-------|-------|-------|-------|-------|
| | 10 V | 30 V | 70 V | 140 V | 280 V | 600 V |
| 1.00000 A | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.039 |
| 5.00000 A | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.039 |
| 10.0000 A | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.046 |
| 30.0000 A | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 | 0.048 |

Sinusoidal Power Specification at 40 Hz to 70 Hz, Power Factor 0.8 (%)

| Current Output | Voltage Output | | | | | |
|----------------|----------------|-------|-------|-------|-------|-------|
| | 10 V | 30 V | 70 V | 140 V | 280 V | 600 V |
| 1.00000 A | 0.039 | 0.039 | 0.039 | 0.039 | 0.039 | 0.041 |
| 5.00000 A | 0.039 | 0.039 | 0.039 | 0.039 | 0.039 | 0.041 |
| 10.0000 A | 0.045 | 0.045 | 0.045 | 0.045 | 0.045 | 0.047 |
| 30.0000 A | 0.080 | 0.080 | 0.080 | 0.080 | 0.080 | 0.081 |

Sinusoidal Power Specification at 40 Hz to 70 Hz, Power Factor 0.5 (%)

| Current Output | Voltage Output | | | | | |
|----------------|----------------|-------|-------|-------|-------|-------|
| | 10 V | 30 V | 70 V | 140 V | 280 V | 600 V |
| 1.00000 A | 0.047 | 0.047 | 0.047 | 0.047 | 0.047 | 0.049 |
| 5.00000 A | 0.047 | 0.047 | 0.047 | 0.047 | 0.047 | 0.049 |
| 10.0000 A | 0.053 | 0.053 | 0.053 | 0.053 | 0.053 | 0.055 |
| 30.0000 A | 0.158 | 0.158 | 0.158 | 0.158 | 0.158 | 0.158 |

DC Power Specification (%)

DC power is calculated as $dP = \sqrt{(dV^2 + dI^2 + 0.01^2)} \text{ (\%)}$

| Current Output | Voltage Output | | | | |
|----------------|----------------|-------|-------|-------|-------|
| | 10 V | 30 V | 70 V | 140 V | 280 V |
| 5.00000 A | 0.038 | 0.038 | 0.038 | 0.038 | 0.038 |
| 10.0000 A | 0.045 | 0.045 | 0.045 | 0.045 | 0.045 |
| 30.0000 A | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 |

Multimeter

| Function | Measuring Range | 1-year Specification, Tcal ±2 °C (% of reading + floor) | Resolution |
|------------|-----------------|---|------------------|
| DC Voltage | 0 V to ±12 V | 0.01 % + 1 mV | 100 µV |
| DC Current | 0 mA to ±25 mA | 0.01 % + 2.5 µA | 100 nA |
| Frequency | 1 Hz to 15 kHz | 0.005 % | 10 µHz to 0.1 Hz |

IN2 Input

| Input IN2 (trigger, synchronization) | |
|--------------------------------------|--------|
| Max frequency | 10 kHz |
| Input low level max | 0.8 V |
| Input low level min | 3.5 V |

Energy (6003A/E Energy Option)

Pulse Inputs (IN1)

| | |
|-----------------------------|--|
| Max frequency | 1 MHz (400 Hz with Input Filter On) |
| Min pulse width | 500 ns |
| Max counts | 5 000 000 000 |
| Voltage high and low limits | low level max 0.8 V, high-level min. 3.2 V |

Energy Pulse Output

| | |
|-------------------------|--------------------------|
| Drive | Open collector |
| Frequency range | 0.02 Hz to 1 MHz |
| Frequency specification | 50 ppm of output |
| External pull-up | 150 Ω, selectable on/off |
| Sink current | 100 mA |

Energy

| | |
|-----------------------------|---------------------------------------|
| Time range | 1 to 1 0000 0000 seconds |
| Time resolution | 0.1 seconds |
| Time interval specification | 0.01 % of time interval + 0.1 seconds |

Test Duration

| | |
|-----------------------|------------|
| Maximum test duration | 1000 hours |
|-----------------------|------------|

Power Quality (6003A/PQ Power Quality Option)

Voltage and Current Sinusoidal and Rectangular Modulation Flicker Specification

| | |
|-------------------------------------|---------------------------|
| Modulation depth | 0 to 30 % |
| Modulation depth specification | 0.2 % of modulation depth |
| Modulation depth setting resolution | 0.001 % |
| Shape of modulation envelope | Rectangular or Sinusoidal |
| Duty cycle (shape = rectangular) | 1 % to 99 % |
| Modulating frequency specification | 50 ppm of output |
| Modulation frequency range | 0.001 Hz to 50 Hz |
| RMS amplitude specification | 0.2 % of range |
| Fundamental frequency range | 15 Hz to 1 kHz |
| Harmonic (2 to 63) frequency range | 30 Hz to 5 kHz |

- [1] For a given modulation %, the output signal swings between (output setting + modulation %) and (output setting - modulation %). The Fluke 6100 Series Electrical Power Standard defines modulation as $\Delta V/V\%$, where its output signal swings between (output setting + $\frac{1}{2} \Delta V/V\%$) and (output setting - $\frac{1}{2} \Delta V/V\%$). To get the same modulation as the 6100 series, set the 6003A modulation to $\frac{1}{2}$ the $\Delta V/V\%$ setting of the 6100.

Harmonics and Interharmonic

Interharmonics are available on voltage and current outputs.

| | |
|---|--------------------------------|
| Fundamental harmonic frequency range | 15 Hz to 1 kHz |
| Fundamental harmonic amplitude specification | ±0.2 % of range |
| Harmonics (2 to 63) frequency range | 30 Hz to 5 kHz |
| Interharmonic frequency range | 15 Hz to 1 kHz |
| Maximum harmonic number | 63 |
| Number of interharmonic products | 1 |
| Frequency specification | ±0.005 % of output |
| Fundamental harmonic phase specification | 15 Hz to 70 Hz: 0.2 ° |
| | 70 Hz to 400 Hz: 0.5 ° |
| | 400 Hz to 1 kHz: 1 ° |
| Harmonics (2 to 63) phase specification | 5 μs ^[1] |
| Voltage harmonic and interharmonic amplitude specification (1 V to 280 V) | 30 Hz to 3 kHz: 0.1 % of range |
| | 3 kHz to 5 kHz: 0.2 % of range |
| Current harmonic and interharmonic amplitude specification (8 mA to 2 A) | 30 Hz to 3 kHz: 0.1 % of range |
| | 3 kHz to 5 kHz: 0.2 % of range |
| Current harmonic and interharmonic amplitude specification (2 A to 10 A) | 30 Hz to 3 kHz: 0.2 % of range |
| | 3 kHz to 5 kHz: 0.4 % of range |
| Current harmonic and interharmonic amplitude specification (10 A to 30 A) | 30 Hz to 3 kHz: 0.2 % of range |
| | 3 kHz to 5 kHz: 0.8 % of range |
| Maximum amplitude of harmonic products | 30 % of RMS output value |
| Harmonic resolution of harmonic products | 0.001 % |
| Noise and Distortion | -60 dB |
| [1] Into resistive loads. For Current outputs, harmonics > 3 kHz and/or > 1.5 V rms compliance on the composite waveform, the specification is 10 μs. The phase accuracy of a given harmonic is given by $P = 5 \mu s / (1/f) \times 360$ where P = phase accuracy in degrees, f = harmonic frequency | |

Dip/Swell

Although Dips and Swells are primarily voltage phenomena, the Product provides the same facility on its current output.

| | |
|---|-------------------------------|
| AC voltage range | 0.1 V to 280 V |
| AC current range | 1 mA to 30 A |
| Amplitude accuracy | 0.2 % of range ^[1] |
| Frequency range | 15 Hz to 1 kHz |
| Timing ^[2] | |
| T1 range | 0 s to 60 s |
| T2 range | 0.1 ms to 60 s |
| T3 range | 2 ms to 60 s |
| T4 range | 0.1 ms to 60 s |
| T5 range | 0 s to 60 s |
| [1] Range is determined by the highest value of the output signal | |
| [2] T1 + T5 > 2 ms | |

Note

Maximum voltage burden and current compliance is reduced in Power Quality functions. See Voltage Range Limits and Burden and Current Range Limits and Compliance above.

Ordering information

Models

6003A 6003A 3 Phase Power Calibrator
 6003A/E..... 6003A 3 Phase Power Calibrator
 with energy option
 6003A/PQ 6003A 3 Phase Power Calibrator
 with PQ option
 6003A/PQ/E 6003A 3Phase Power Calibrator
 with PQ option and energy option

Options and accessories

6003A-90A 90 A adapter and
 high current cables
 52120A/COIL3KA..... Coil, 25 turn, 3000 A
 52120A/COIL6KA..... Coil, 50 turn, 6000 A
 5500A/COIL Coil, 50 turn, 1000 A

Software

MET/CAL Software Automation solution for DC/LF
 and RF calibration
 MET/TEAM Software..... Calibration asset management
 software and modules
 Software Services..... Installation, customization,
 and training services

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| | | | | | |
|------------|----|-------------|----------|------|----------|
| Electrical | RF | Temperature | Pressure | Flow | Software |
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