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OVERVIEW

Features & Benefits

A6312

- 2 Meter Cable
- 20 Amps Continuous / 50 Amps Peak
- DC to 100 MHz
- Up to 0.15 in. Conductor Diameter

A6302

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- Up to 0.83 in. Conductor Diameter

A6303XL

- 8 Meter Cable
- 100 Amps Continuous / 500 Amps Peak
- DC to 10 MHz

A6304XL

- 8 Meter Cable
- 500 Amps Continuous / 700 Amps Peak
- DC to 2 MHz

CT4

- Pulsed Currents to 20,000 A
- Continuous Currents up to 2,000 A_{p-p}
- Accepts 1.5 in. Diameter Conductors
- Measurements on Bare Conductors to 3,000 V_{Pk} (1,000 V_{RMS} CAT III)
- AC
- Split Core
- Use with A6312, A6302, A6302XL, P6021, or TCP202

Applications

- Motor Drives
- Satellite Systems
- Inverters
- Transportation Systems
- Power Supplies
- Avionics

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A total of six current probes are available for use with the AM503B and AM5030 Current Probe Amplifiers. Since all six probes are of the split-core mechanical design, they easily clip on and off of a conductor. All the probes provide simultaneous DC and AC current measurements with a wide range of current amplitude and bandwidth capabilities.

The AM503 Current Probes convert the DC and AC flux field of a conductor to a voltage signal which is sent to an AM503B or AM5030 Amplifier. The probes include both a Hall Effect device, which senses the DC current, and a ferrite transformer which senses the AC current. The probes also utilize a bucking current from the Amplifier, which eliminates core saturation. The bucking current is 20 A for the A6302XL, 100 A for the A6303XL, and 500 A for the A6304XL.

A6312, A6302, and A6303 Current Probes

The A6312, A6302, and A6303 offer a wide range of current measurement capability for the lab and bench environment. The A6312 covers frequencies from DC to 100 MHz while the A6302 covers DC to 50 MHz. Both clip onto conductors up to 3.81 mm (0.15 in.) and measure continuous currents up to 20 A and peak currents up to 50 A as long as they do not exceed the amp*second product of 100 A* μ s.

The larger A6303 measures higher amplitude, lower frequency currents. It clips onto conductors up to 21.1 mm (0.83 in.) in diameter. Its frequency range is DC to 15 MHz. It will measure continuous currents up to 100 A and peak currents up to 500 A, as long as the amp*second product of 10,000 A* μ s is not exceeded.

The A6302 and A6303 are also compatible with the 11A16 2-CH Current Probe Amplifier for the 11000 and DSA Series oscilloscopes. With the 11A16, the A6302 is rated for 10.5 A, and the A6303 for 52.5 A.

Note: The A6312, A6302XL, A6303XL, and the A6304XL are not compatible with the 11A16.

XL Series Current Probes

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measurement instrument.

Safety

AM503S/AM5030S – Certified to base standard UL3111-1, CSA1010.1, EN61010-1, IEC61010-1.

A6302/6312/6303/6303XL/6304XL – Certified to probe standard UL3111-2-032, CSA1010.2.032, EN61010-2-032, IEC61010-032.

CT4

CT4 Current Probe

The CT4 is a robust clip-on high-current transformer that extends the measurement capability of the P6021, A6302/XL, A6302, A6312, and TCP202 clip-on current probes. Maximum low-frequency performance down to 0.5 Hz is obtained using the AM 503S. Current amplitudes to 20,000 A may be

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