

### *Power Meters Ease Compliance with Eco-design Directive*

A software change made by [Chroma Systems Solutions](#) enables the company's 66200 series power meters to fully meet the Eco-design Directive for Energy-using Products (2005/32/EC), which came into force in August of 2007 (see the figure.) The Eco-design Directive established a framework under which manufacturers of energy-using products (EuP) are, at the initial design stage, obliged to increase energy efficiency and reduce the products' negative environmental impacts.

The Eco-design Directive defines various measurement guidelines and requirements including power consumption measurement requirements. Measurement of power levels of 0.5 W or greater shall be made with an uncertainty of less than or equal to 2% at the 95% confidence level and measurements of power levels less than 0.5 W shall be made with an uncertainty of less than or equal to 0.01 W at the 95% confidence level. The directive also requires increased measurement information on parameters such as voltage, current, frequency, power, total harmonic distortion, and power factor.

According to the company, combining the 66200 power meter with the company's standard software platform, users can easily accomplish the required EUP measurement tasks with little effort. In addition to the standard 66200 series software, Chroma also provides the Power Efficiency Test software platform as a more comprehensive measurement solution for meeting eco-design requirements on active power efficiency measurements of external power supplies. Chroma power meters also meet Energy Star requirements and are SPEC-accepted measurement devices.



*Figure. The 66200 power meter satisfies the measurement requirements established by the Eco-design Directive for Energy-using Products.*