



## **LE Announces Variable Speed Genset (VSG)** *A New Approach to Power Generation*

**November 1<sup>st</sup> 2006, Indianapolis, IN** – Light Engineering (LE) is proud to announce the availability of the LE VSG85 variable speed genset. The LE GenSmart™ technology enables a new approach to power generation. The LE VSG85 is a fuel efficient genset with many technical benefits over traditional units, including the fact that it is suitable for stationary applications where fuel efficiency is of high importance.

The LE VSG85 varies the speed of the engine based upon the amount of electrical load on the generator output. At full load the engine is running at maximum RPM, but as the load drops below the maximum level, the engine speed is reduced to a point that provides maximum system efficiency. By taking advantage of the variable speed capabilities of this system, fuel savings in excess of 25% can be achieved over a fixed speed generator set.

The VSG85 GenSmart™ genset offers higher power density in a smaller package and improved motor starting capability over a traditional fixed speed genset. For acceptable motor starting, traditional fixed speed generator sets use a 2.5kW = 1 HP ratio (genset size to motor load) for determining the correct size of the generator set. By using the GenSmart™ VSG, sizing of the generator set for acceptable motor starting can be accomplished with a 1kW = 1HP ratio. This results in a smaller and less costly generator set than a traditional fixed speed unit.

*LE has developed and markets the industry's leading rotating machine technology for permanent magnet motors and generators. Our technology enables the LE GenSmart™ generators and SmartTorq™ motors that LE commercially sells today, and also is the building block for various new applications to come. The application of LE technology allows for greatly reduced machine sizes and active material contents, and thus has proven to be the cost leader in permanent magnet applications of 2 – 200 kW. LE is headquartered in Indianapolis, Indiana, USA, and has manufacturing operations in the Guangdong Province of China.*

Please visit [www.lt-eng.com](http://www.lt-eng.com) for more information, or contact:

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