

## LMG640: Key Facts at a Glance

Channels	<ul style="list-style-type: none"><li>• Outstanding accuracy of 0.015% of measured value + 0.01% of range</li><li>• Full dynamic range of 500 <math>\mu</math>A to 32 A / 3 mV to 1000 V per channel available in single instrument</li><li>• Power measurements from standby to full load (max. 32 A) without mechanical changes</li><li>• Analog bandwidth DC up to 10 MHz</li><li>• Modular configuration with 1 to 4 power measurement channels (alternatively 3 channels + 1 I/O card)</li><li>• Gapless sampling up to 18 bit and cycle time &lt;30 ms</li><li>• Delay time between V and I input &lt; 3ns, very precise measurements at small power factors (PF) and/or high frequencies</li></ul>
Features	<ul style="list-style-type: none"><li>• Simultaneous measurement of narrow- and broadband values through innovative DualPath architecture</li><li>• Simultaneous capturing of fundamental frequency and broadband RMS values for instantaneous detection of losses, resp. high-frequency components</li><li>• Harmonics and interharmonics up to 2000. order, as required by EN61000-4-7</li><li>• With optional I/O card speed/torque inputs freely configurable for all signal types (analogue, frequency as RS422, TTL or HTL) via menu</li><li>• Flexible scripting tool for custom applications</li><li>• Simultaneous measurement of V, I, P values and harmonics, presentation in tabular or graphical form</li><li>• Signal filters freely configurable by frequency, type and characteristics</li><li>• Synchronization to up to 4 different frequencies simultaneously</li><li>• Flicker measurement, interactions between grid and appliance according to EN61000-4-15</li></ul>
User Interface	<ul style="list-style-type: none"><li>• Large and clearly arranged touchscreen GUI for intuitive handling</li><li>• All instrument features displayed, identical look-and-feel for local and remote operation for quick and easy familiarization</li></ul>
Memory and Interfaces	<ul style="list-style-type: none"><li>• Large and clearly arranged touchscreen GUI for intuitive handling</li><li>• All instrument features displayed, identical look-and-feel for local and remote operation for quick and easy familiarization</li></ul>
Miscellaneous	<ul style="list-style-type: none"><li>• Convenient "plug-and-measure" through automated sensor detection</li><li>• no external sensor power supply required</li><li>• 12 months guaranteed calibration interval for minimal service cost and optimal availability</li><li>• Calibration certificate included free-of-charge in first delivery</li><li>• 24 months warranty</li></ul>