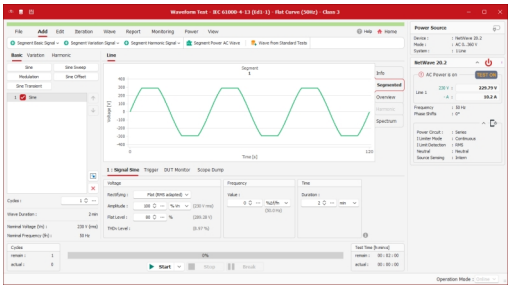


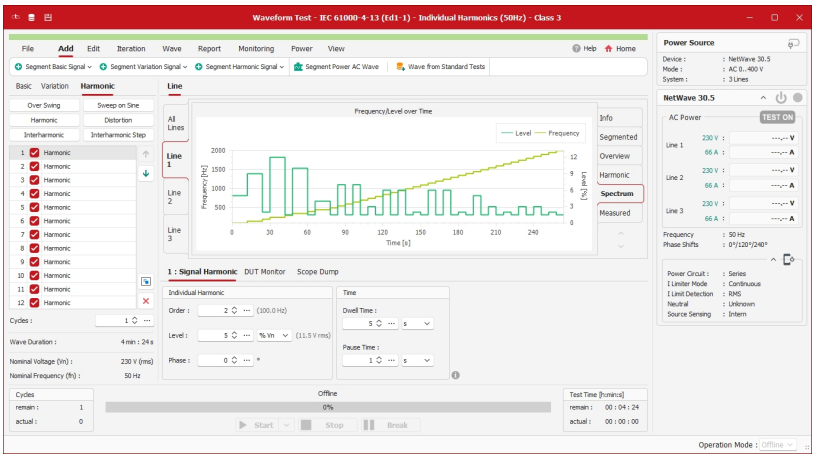
CTS Industry Standards Testing

Compliance Test Studio

Compliance Test Studio 23 for Industry Standards Testing simplifies conducted EMC low frequency testing according to IEC 61000-4-13, 4-11, 4-14, 4-17, 4-28, 4-29, 4-34 and many others. Remotely control, programm and perform tets with AMETEK CTS electronic power sources NetWave and PowerWave. The extensive standards library includes pre-programmed tests which makes you focus on testing and not programming. It is the ideal tool for compliance testing as well as testing part of the product development or validation process.

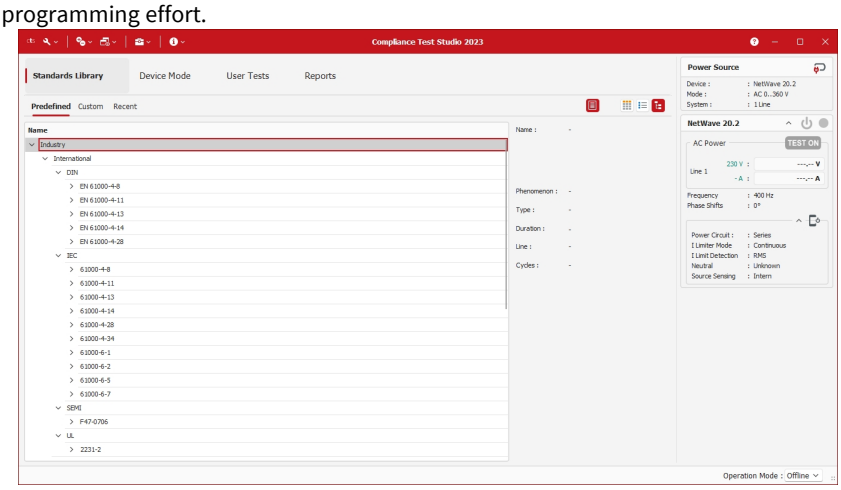
MAIN FEATURES

- **Industry compliance testing**
- **IEC 61000-4-13, 4-8, 4-14, 4-28 on AC**
- **IEC 61000-4-17 and 4-29 on DC**
- **Large library with pre-programmed tests**
- **Easy generation of comprehensive reports**



Efficient testing with Standards Library

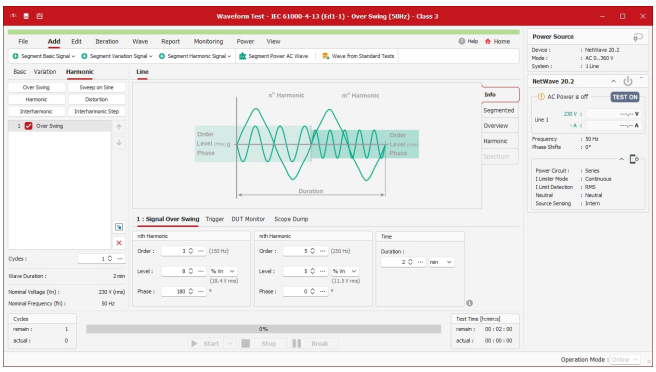
The extensive standards library includes thousands of pre-programmed tests. This allows also less experienced users to perform fully normative tests with minimum programming effort.



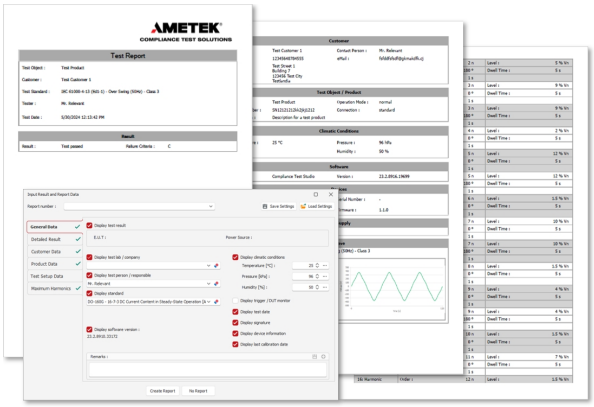
A wide variety of supply voltage variations can be generated: voltage and frequency variations, sine sweep, flat top curves, harmonics and interharmonic etc.

AMETEK CTS experts actively follow and participate in international standardization work. This ensures that always the latest changes are implemented and neweset versions of standards are available. Updates are regularly released to keep track with changes in standards, methods or test conditions.

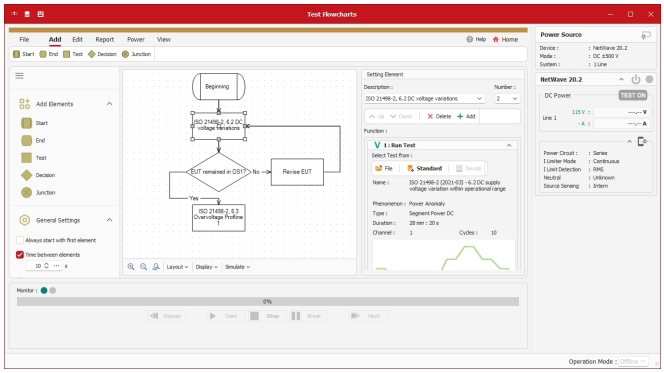
Main Features and Functions



The Waveform Editor allows easy programming of AC and DC voltage variations. Use the pre-programmed waveforms from the Standards Library, customize them to your needs or program a custom waveform based on the available segments (ramps, transitions, distortion, sweeps etc.). The waveform is changed by modifying the segment parameters, which are documented in the integrated help.
Arbitrary waveforms can be loaded and played through CSV files generated by external software (e.g. Microsoft Excel™, Matlab™). This gives maximum flexiblity to generate any possible waveform.



Documentation is a required and important step in EMC testing. Compliance Test Studio supports with various functions for report generation: adding customer information, test object data, test setup pictures and additional information. With the report editor the report content can be customized to create a meaningful report. Customize the test report template to include your company logo and address. Monitoring measurements and print screens of external instruments can also be added.
It is also possible to save the report within the Compliance Test Studio and reopen it for modificationsy. The report can be exported in various file formats which allows further processing and integration in overall test reports.



The CTS.ExtFunctions license provides additional helpful tools to increase efficiency. The Iterations feature allows to iterate through parameters of a segment, e.g. to find a the critical level of a harmonic distortion on the EUT supply.
Additional external instruments (e.g. multimeters, oscilloscopes, etc.) can be integrated and controlled by Compliance Test Studio software for monitoring and documentation of the applied signal and the EUT condition. The Link Test functions allows to compose complete test plans based on the Standards Library and customized tests, combined with measurements from external instruments, or react on EUT states via triggers.

Available Licenses

License	Description
CTS.Industry	Library with pre-programmed tests for industry standards e.g. IEC 61000-4-13/-14/-28 etc. in combination with a NetWave/PowerWave, valid for all licensed devices, requires a device license
CTS.ExtFunction	Extended features including report, link, flowchart, measuring instruments, iteration, interlink, import and export of test data , requires a device license

Supported Devices

Models	NetWave (all models) PowerWave