

SOLV™ Harmonic Analysis Software



Key Features

Friendly, easy-to-use interface

System and load parameters are entered with a simple one-line diagram editor

Built in library contains all Lineator™ AUHF filters and load models for alternate solutions

Powerful Simulation Engine provides fast and accurate analysis

Harmonic voltage and current distortion evaluation (THD & IHD)

Calculates Telephone Interference Factor (TIF) and I*T Product

Performs Energy analysis

View onscreen Waveforms, Spectrum and Phasor diagrams

Report tool provides detailed IEEE 519 compliance, harmonic distortion and TIF reports

Ability to Export Harmonic Spectrum data to a Spreadsheet

Units can be set to Imperial or Metric

Say Goodbye to Costly Harmonic Studies

SOLV™ is a powerful simulation program that will calculate current and voltage distortion levels by simulating the Mirus Lineator™ and Variable Speed Drive (VSD) / Variable Frequency Drive (VFD) based on your load requirements. By simply entering some basic information about your source and VSD system, MIRUS' SOLV™ will help you find the right solution for your VSD application by accurately predicting the performance level you can expect without the need of a costly harmonic study.

SOLV™ also allows you to perform energy analysis by providing evidence of how energy can be saved by removing harmonic losses introduced by VFDs and justifying the use of Lineators based on energy savings. Its kW calculation includes all harmonic losses in transformers and cables and provides total kW, kVA and kVAR at the Point of Common Coupling (PCC), Distribution Panel in the Summary Report. SOLV™ eliminates the guesswork in evaluating the best performing solution for your harmonic challenges.

A Useful Tool for any Power Quality Professional

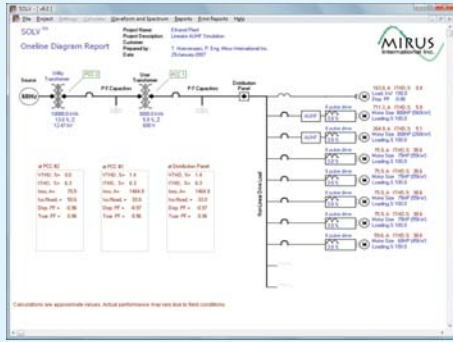
This software is a valuable tool for consulting and specifying engineers, utility operators, OEMs and anyone who needs to evaluate and compare solutions for treating harmonics in VFD applications. A trusted tool since 2004, SOLV™ is used by power quality professionals that represent a wide spectrum of industries including Oil & Gas, Marine, HVAC, Water/Wastewater, Industrial, Government, Education, to name a few.

Downloading is Easy . . . and it's Free!

SOLV™ is a complimentary software from Mirus International. To get your copy of SOLV™ visit www.mirusinternational.com and register for a free download.



Simple One-Line Diagram Editor

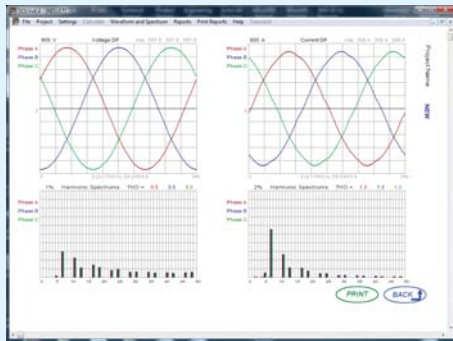


SOLV provides an intuitive and easy-to-use One-Line Diagram editor.

The Electrical System is modeled from Basic Function Blocks including:

- The Electrical Source
- The Utility transformer or Generator
- The User Transformer
- Cables and PFC Capacitors
- Linear Load branch
- Non-Linear Load branches

Waveform and Spectrum Viewer



Waveforms and Spectrums

The 'Waveform and Spectrum' module provides selection for viewing waveforms and spectrum on points of interest:

- PCC # 1
- PCC # 2
- Distribution Panel

View and Print Reports



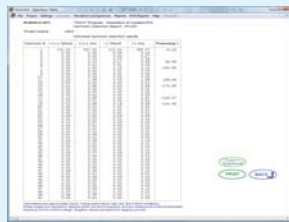
Simulation Summary



IEEE Std 519 Compliance



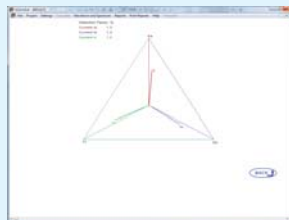
Harmonic Current Distortion
IEEE Std 519 Compliance



Harmonic Distortion
Report



TIF & I*T Report



Phasor Diagram

Report Module

SOLV™ is fully compliant with IEEE Std 519 with harmonic limits pre-set in the software. A number of other reports are also available including:

- Simulation Summary Report
- Harmonic Current Distortion
IEEE Std 519 Compliance Table
- Harmonic Distortion Report
- Phasor Diagram

Reports offer a detailed outlook at each simulation run in the program giving users a valuable tool for recommending a solution, determining the performance of a solution and submitting a recommendation to outside parties.

