

Power Integrations announces industry's first power supply design software to automate transformer design

Article options

 [Email me](#)

 [Email a friend](#)

Search

search for part number
search entire site

High-efficiency stepdown
DC/DC converters need
no heatsink



[Click Here](#)



Power Integrations, the leading supplier of high-voltage analog integrated circuits used in power conversion, has released version 6.1 of PI Expert Suite, the company's popular design software for switched-mode power supplies.

The PC-based software package automates the design of flyback, forward-converter, buck and buck-boost power supplies utilizing Power Integrations ICs, dramatically reducing design time and accelerating time-to-market.

PI Expert Suite takes a designer's power supply specifications and automatically determines the critical components needed to generate an energy-efficient power supply. The highly intuitive graphical interface includes interactive circuit schematics and a design wizard that guides the user to the best circuit topology. Interactive design forms aid the user in configuring the advanced power supply features built into Power Integrations ICs, such as over- and under-voltage protection, thermal shutdown and external current limits.

Among the new features included in PI Expert Suite 6.1 is PI Transformer Designer, a unique tool that produces detailed transformer specifications for power supply designs. The tool shortens one of the most time-consuming steps in power supply design, cutting hours or even days out of the design cycle. PI Transformer Designer generates step-by-step winding instructions and detailed materials requirements, greatly simplifying the task of making prototypes or requesting samples from transformer vendors. The tool supports multi-filar windings, foil windings and AC-stacked transformers, and provides guidance on the use of low-cost shield windings to reduce electromagnetic interference.

"The new PI Expert promises to help overcome many of the challenges involved in power supply design by providing a complete, easy-to-follow recipe for transformer construction," stated Mr. Vallam Venkatesh, Director (R&D) at Hical Magnetics, a prominent supplier of transformers for switched-mode power supplies. "With the comprehensive construction details provided by PI Transformer Designer, we can easily build samples that meet a designer's circuit requirements quickly and accurately."

"Transformer design is typically the most difficult and time-consuming part of a power supply designer's job," observed Larry Ye, President of Synergistic Technology Solutions, a U.S.-based power solutions company. "This new software from Power Integrations should greatly improve our design productivity and allow us to better leverage our resources. The industry has been waiting for something like this for quite awhile."

The PI Expert CD-ROM contains the complete suite of design software in addition to the full library of Power Integrations data sheets and reference designs. The software is offered free of charge and is available

Power Integrations announces industry's first power supply design software to automate transformer design

through the company's network of worldwide distributors.

Power Integrations offers customers a wide range of design support options, from do-it-yourself tools like PI Expert Suite and the Web-based PI Facts technical help tool to hands-on design support from the company's worldwide team of application engineers. Design Accelerator Kits (DAKs) offer reference designs that include working power supplies, product samples and complete documentation.

For more information on the full range of Power Integrations products available from Anglia please call +44 (0)1945 474747 or email info@anglia.com

[Alternatively, click on this link to go to the main Power Integrations section where you can view other news articles and product data.](#)

[back to product news](#)

This news article was originally published in December 2005.

Copyright © 1995-2006 Anglia Components Ltd. Please read our [Privacy Statement](#) in conjunction with the [Terms and Conditions](#) of this Website.

www.anglia.com
info@anglia.com

Tel : +44 (0)1945 47 47 47
Fax : +44 (0)1945 47 48 49

12/1/06