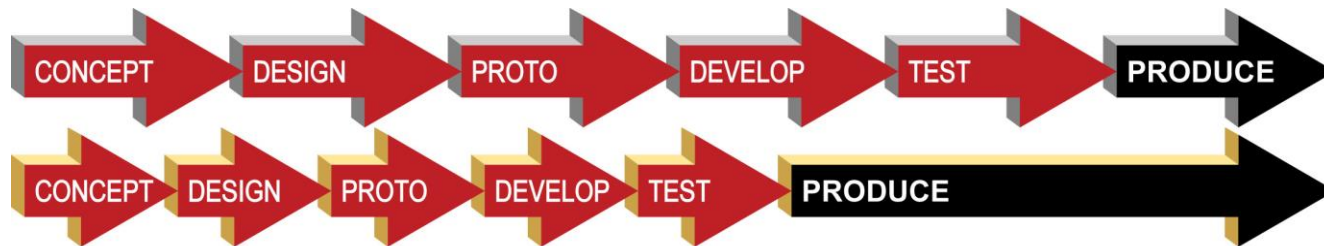


# Reducing Time-to-Market in PV Inverter Design



*Powerex Intelligent Power Modules provide the fastest path to put your concept in the **BLACK!***

## Executive Summary

- Powerex has a full family of Intelligent Power Modules for PV inverters.
- Powerex Applications tools provide leverage for your finite technical resources.
- Powerex IPMs are more than integrated, they are intelligent.

For small to mid-sized solar inverter companies, reducing time-to-market is a critical element for success. In a highly competitive industry, everyone is looking for an edge to realize revenue faster and increase their market share.

**Concept** – In the early stages of product development, your ideas will continue to evolve. That is why Powerex has a wide range of Intelligent Power Modules. Whether your needs are under 5kW or over 100kW, we have a solution for you.

**Development** – On project timelines, the development cycle almost never takes into account the anomalies that block progress. This is where the Powerex Applications team can provide your team with additional leverage. Contact us at [PVhelp@pwr.com](mailto:PVhelp@pwr.com).

**Test** – Consumers of PV inverters demand reliable performance. This means that your system must be ready to handle extreme temperatures and overload conditions. That is why Powerex Intelligent Power Modules

## Find Out More at...

[www.pwr.com/LibrarySearch.aspx](http://www.pwr.com/LibrarySearch.aspx)

—  
L-Series Power Devices  
Application Note  
(Key Word 907)

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1200V Gen. 4 Large  
DIIPM Application Note  
(Key Word 959)

—  
600V Gen. 4 Large DIIPM  
Application Note  
(Key Word 958)

—  
Mitsubishi Power Module  
Loss Simulator available at  
[www.pwr.com/home.aspx](http://www.pwr.com/home.aspx)

—  
Need help with your solar  
inverter application? Contact  
us at [PVhelp@pwr.com](mailto:PVhelp@pwr.com)

**Design** – Proof-of-concept is an important part of your efforts to compress the design cycle. On our website ([www.pwr.com](http://www.pwr.com)) you will find simulation software to validate the

electrical performance and characterize the thermal requirements. This will help eliminate the time and cost associated with “going back to the drawing board.”

**Proto** – Even before you have your circuit layout, you can start prototyping with Powerex development kits. The schematic, PCB layout, and bill of materials can also be used as a template for your own circuit design.

*There are obstacles that stand between your concept and the resulting revenue stream. Powerex Intelligent Power Modules help you to minimize the time spent conquering each one, and thus allow you to spend less time in the red and more time in the black.*

include Sense-IT™ technology. Sense-IT provides the industry’s most sophisticated and rugged protection by sensing the current and temperature on the actual semiconductor chips.

**Production** – When it comes time to ramp-up production of your design, you also need a supply-chain partner that will help you to mitigate risks. Powerex sales representatives and authorized distributors are available to help plan for production support. Find your local representative at [www.pwr.com/SalesSupport.aspx](http://www.pwr.com/SalesSupport.aspx).