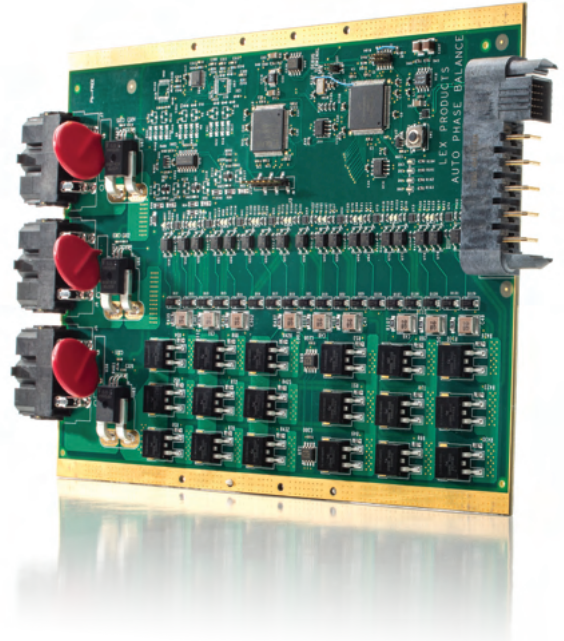


Mil-Spec Power Electronics

3-PHASE AC LOAD BALANCING SYSTEM

Designed for military use, the requirements for this system posed many challenges: seamless phase switching for all types of loads, passive thermal management, and zero single-point failures. Presco developed a complete electronics and software package, including an innovative phase switching technique, and a patent-pending thermal management solution.



Electronic Design

- 40A 3-Phase Generator Input
- 12, 20A Single-Phase User Outputs
- Innovative Zero Switch Time Phase Rotation

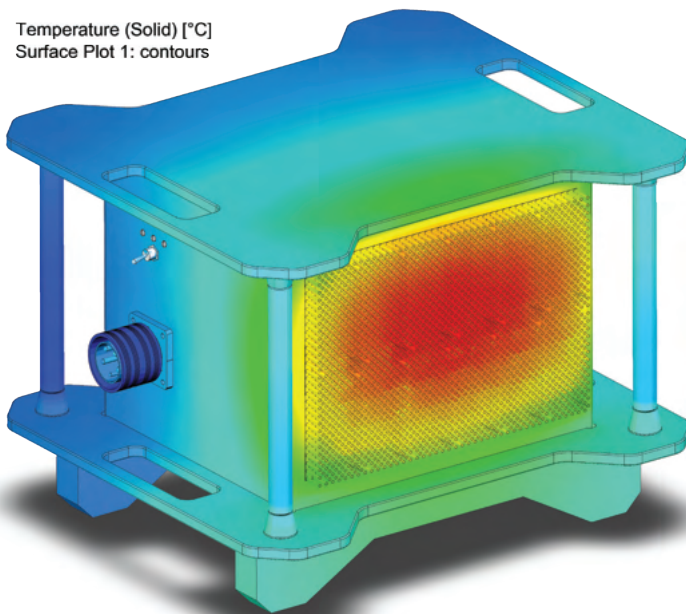
Firmware Development

- Multiple ARM Processors with CAN Bus Communications
- Embedded Web Server for Configuration and Status
- Custom Lightweight, Thread-Safe Database

Thermal Management Solution

- -40 to 60°C Ambient Plus Sun Loading
- Metal Backing Plates with Integrated Heat Pipes
- Patent-Pending Design

Temperature (Solid) [°C]
Surface Plot 1: contours



Temperature (Solid) [°C]
Surface Plot 1: contours

