PEM® THFE™ Heavy-Duty Studs:
Total System Solution with PEMSERTER® Press Met Safety-Critical Requirements

Switching to THFE™ Heavy-Duty Studs with PEMSERTER® installation system simplified the assembly process and satisfied critical safety requirements for high-voltage application.

OVERVIEW

Customer:
Automotive Electronic / Electro-Mechanic Components

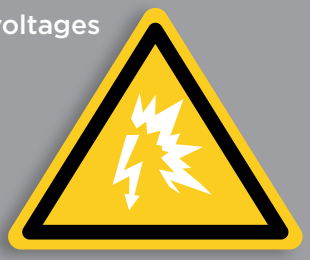
Application:
Battery Terminal Connectors

Solution:
THFE™ Heavy-Duty Studs

CHALLENGE

Remove "Arcing" Risk to Prevent Safety Issues

- Current busbar design limited installation access
- No metal protrusion allowed around base of stud
- Fire risk due to high voltages
- Need system supply solution
- Need global manufacturing support



SOLUTION

THFE™ Heavy-Duty Studs

- For thin-sheet applications
- Clinch design for max pull through (.031" / 0.8mm sheets)
- Enlarged head diameter reduces panel stress
- Thicker head allows larger panel holes
- Recommended for steel/aluminum sheets HRB 85 / HB 165 or less
- PEMSERTER® installation press for Total System Solution

RESULTS

Utilizing the THFE™ stud design removed risk of critical safety issues

- Supplying PEM® fastener and PEMSERTER® installation removed need for 2 suppliers
- Tooling design allowed for install into recessed connector
- Supplied with Zinc plating for OEM requirements
- Expert PEM® support for testing, validation
- PEM® global capabilities with production in North America, Europe and China

PennEngineering®