

Reliability Testing

INDUSTRY

Test & Measurement

SOLUTION

LCM1500/BCQ1300/
LGA80D

EQUIPMENT

Semiconductor
Burn-in

Semiconductor Burn-in

Complex semiconductors such as processors, FPGAs and memory often require high extensive testing to verify their functional performance. Multiple test cards with multiple ICs are assembled into a cabinet along with fans to prevent the ICs from overheating. The test cards themselves must supply the required low voltage power to the pins of each IC.

Advanced Energy's burn-in equipment customer was commissioning new equipment to address the specific needs of one of their long time semiconductor manufacturers and needed a "top to bottom" distributed power solution for their equipment design. The LCM1500W AC/DC power supply was used to provide high current 48V to the fans and test cards. For each card the BCQ1300

DC-DC bus converter was used to down convert the 48V to a 12V bus and provide isolation. Finally, the LGA80D non-isolated POL (Point-of-Load) DC-DC converters were used to provide a digitally adjustable output voltage of 0.25 to 5V for the various power pins of the ICs.



For international contact information, visit advancedenergy.com.

powersales@aei.com
+1 888.412.7832

PRECISION | POWER | PERFORMANCE | TRUST

Specifications are subject to change without notice. Not responsible for errors or omissions. ©2023 Advanced Energy Industries, Inc. All rights reserved. Advanced Energy®, and AE® are U.S. trademarks of Advanced Energy Industries, Inc.