




POWER ELECTRONICS REPAIR & WARRANTY

Taking the risk out of repair & warranty



Anecto is a leading provider of Power Electronic Engineering Repair and Warranty Programs for the Renewable Energy sector. Leveraging over 20 years' experience in the Power and Electronics sector, we specialise in Power Conversion Technologies with knowledge and expertise across the spectrum of Design, Test, Service and Repair.

Anecto's innovative test and repair programs offer solutions to high power electronics clients that other repair players cannot. Customised Electronic Test strategies are tailored for the application environment, often carried out in tandem with a combination of stress tests which include exposure to varying Temperature, Humidity, Mechanical Shock and Corrosion environments. We address any latent issues or underlying weaknesses in products that have developed during their working lives, meaning reduced downtime, increased reliability and increased profit.

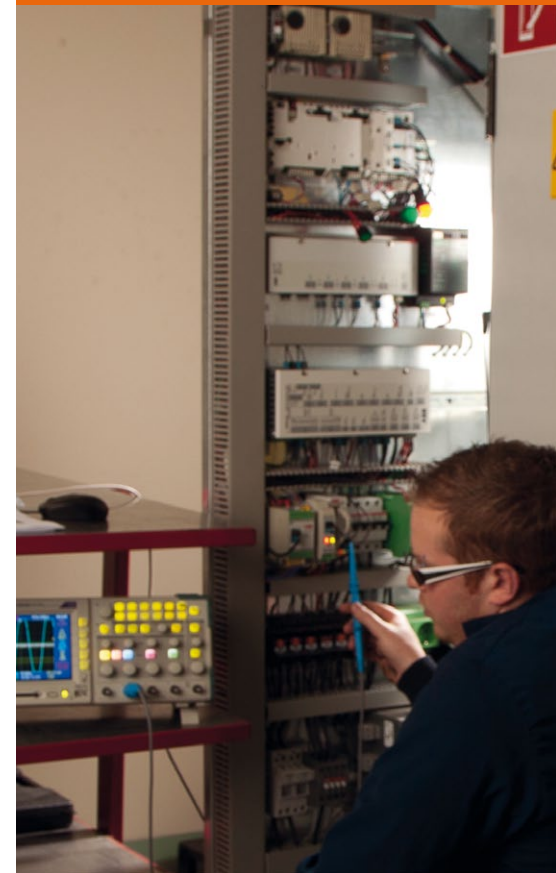
We can do this because we are an independent ISO 17025 accredited Reliability Test House and our whole philosophy is based on maximising quality and the customer experience. For example, in programs going back over 10 years for three of our international Tier 1 manufacturers the warranty claim rate is less than 50% of the industry norm.

Today our client base is spread across the Energy, Power, Medical, Military, Automotive and Aviation sectors. These sectors expect and demand high quality and high reliability solutions which Anecto provides.

- ✓ High Power Test Systems and Processes designed to simulate Power Conversion Application Environment
- ✓ Reliability Stress Screening processes eliminate any component weaknesses or latent failures
- ✓ These Stress Screening processes also help eliminate repeat No Fault Finds in the Repair loop
- ✓ Framework agreements in place with original IGBT and other key component manufacturers
- ✓ Upgrades as Standard, in some cases offering more robust or technically superior solutions
- ✓ Technical solutions delivered proactively to eliminate any End of Life or Obsolescence type issues
- ✓ Failure Analysis and Corrective action programs designed to maximise uptime and increase Product Life Cycle
- ✓ Customised Inventory Management Programs to ensure Availability is not compromised



HOW ANECTO REDUCE THE RISK IN REPAIR AND WARRANTY



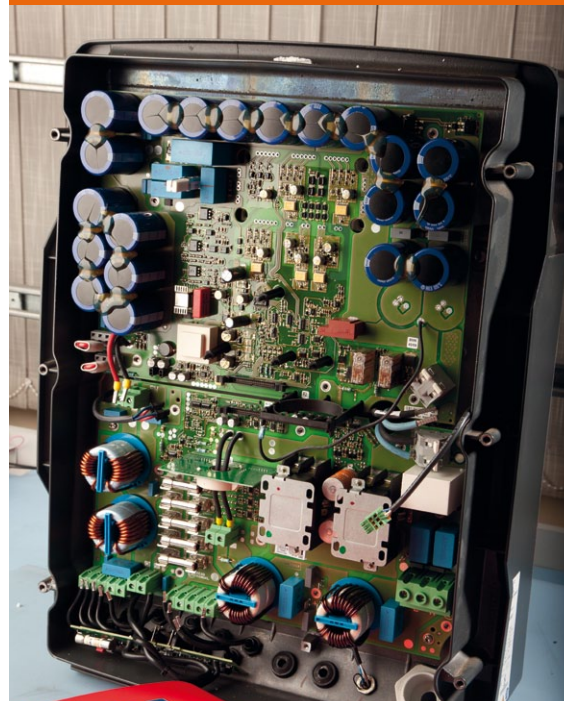
TYPICAL TECHNOLOGIES



FRAMEWORK AGREEMENTS
IN PLACE WITH KEY POWER
COMPONENT MANUFACTURERS



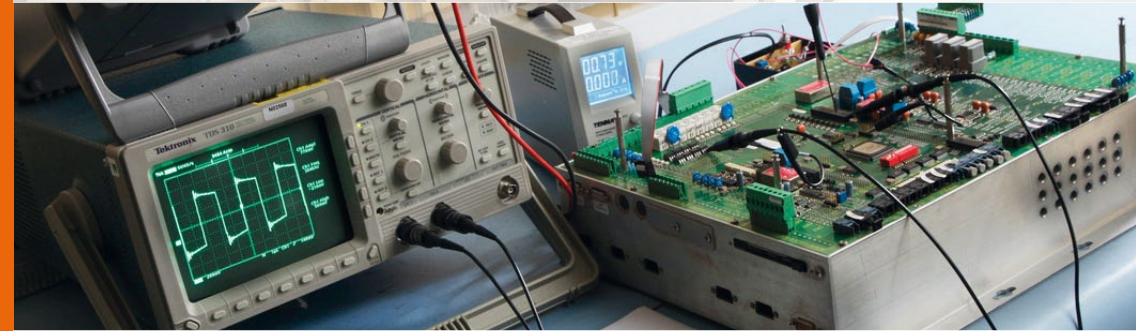
HIGH POWER
ELECTRONIC
ENGINEERING
SOLUTIONS



SMA PV Inverters 9kVA – 12kVA (Typical)



MD2000 Convertteam (GE Power Conversion) Phase Modules



Woodward Concycle 690V SU/ HU CSC3/4 Controller Modules



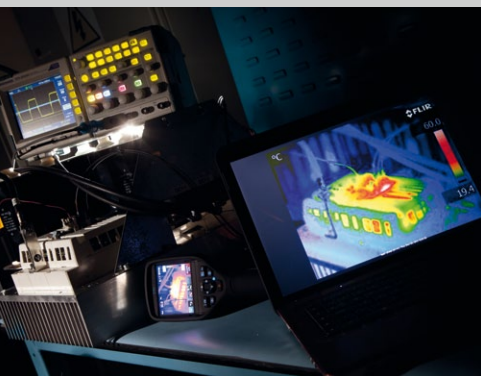
Woodward Concycle 690V 310,311,313 Inverter RAC



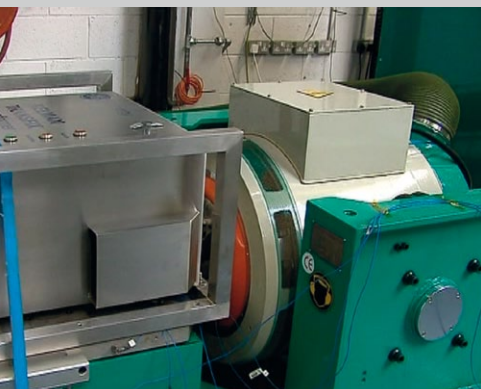
Lenord & Bauer Position Controller GEL 8230



Power Converter Simulation



Thermal Imaging analysis on
Semikron IGBT assembly



Vibration (3 axis) testing on GE
Energy Transformer Monitoring Kit



Corrosion Test Validation
Laboratory

FAILURE ANALYSIS

Our Failure Analysis processes offer insight to clients in determining root cause of failures.

- Decapsulation
- Curve Trace
- X-Ray
- Cross Sectional Analysis
- Electron Microscope

RELIABILITY STRESSTESTING

Our ISO 17025 accredited, state of the art testing laboratory provides quality assurance in each part we repair.

- HALT (Highly Accelerated Life Testing)
- Temperature Cycling
- Random and Sinusoidal Vibration
- Thermal and Mechanical Shock

CONSULTING

- Failure Mode Effect Analysis (FMEA)
- Failure Rate Analysis (MTBF Calculations)
- Regulatory Compliance Consulting
- CE Marking

ANECTO AND EMERSON

A strategic partnership that has brought enhanced benefits for the overall customer experience

Since 1994, Anecto Ltd has worked closely with Emerson and companies under the Emerson umbrella. During this time Anecto has developed a number of innovative solutions which have been mutually beneficial and helped cement a very successful partnership with Emerson Network Power. This long standing relationship coupled with Anecto's exemplary service to Emerson was rewarded in 2011 with the 'Consider it Solved' award.



“ It came as no surprise to me that a supplier the calibre of Anecto was awarded our prestigious 'Consider it Solved' award. They have continued to consistently deliver innovative solutions to the problems we present and their expertise in reliability is second to none. They are a key cog in our supply chain and I would highly recommend their services to anyone in the industry. ”

Steve Whitehouse
European PSG Technical Manager
Emerson

More details on this Partnership can be viewed at
www.anecto.com/energy



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POWER ELECTRONICS EXPERTS

