

## Our customers have the **POWER** that comes with **PERFORMANCE**



For Ultrasound Diagnostic System  
AC INPUT AND DC INPUT POWER SOLUTION

### THE REQUIREMENT:

Our customer was developing a next generation Ultrasound Diagnostic System that required an uncommon power solution to enable small size and mobility — the power solution needed to run on an AC Connection and from internal batteries to allow mobility. DongAh developed a two-part power system to meet the challenging electrical and mechanical requirements.

### AC INPUT POWER SYSTEM:

An Isolation Transformer to provide 10 Amps of clean and safe AC Power with -48VDC and +12VDC Outputs. A complete suite of control circuits are included for battery charging, system cooling and over voltage / over current / over temperature protection. Front Panel AC Inlet, on/off switch and six LEDs for visual indication of system status and field utilization.

### DC INPUT POWER SYSTEM:

Drawing -48VDC input power from either the AC Power System or Batteries, this advanced power system provides fifteen programmable and Sequenced DC Outputs. The output voltages are filtered to reduce ripple, noise, and EMI/RFI, improving our customer's ability to provide accurate, high resolution images.

### DELIVERABLES:

Our customer receives a complete power system designed to fit their specific application that is qualified to International Medical Safety Standards, meets Class B EMI/RFI Standards and designed for rugged ability in a mobile cart that may experience high amounts of shock and vibration.

Our customer recognizes DongAh as a "Class A Supplier" for the design, manufacture and support of these advanced power systems

