



# Case Study

## Video Displays and Digital Billboards

### Client

Our client is known as a leading supplier of large screen video displays, jumbotrons, electronic scoreboards, computer-programmable displays, digital billboards and control systems.

They design the controlling interface for large display systems and integrate multiple complex displays showing real-time information, graphics, animation and video. They provide video displays for applications such as sports, entertainment, business and transportation.

### Challenge

The client needed a custom power supply for a variety of their video display systems: some that would be outdoors and exposed to the elements, such as in a sports arena, and others that would be used inside such as in a transportation application.

These power supplies had to meet stringent reliability requirements and be able to withstand drastic changes in weather when encased within these digital billboards and displays. In addition, the client required control for the point of load in these custom power supplies.

As you can imagine, since many of these video displays are always on, we had to address heat as a consideration in our design and testing.

### Solution

Wall Industries worked side-by-side with the client's engineering team to review their specification for each application and then custom tailored a DC to DC power supply that was highly reliable and could be fitted into a variety of their products.

We were able to develop a custom power supply that worked with many of their standard displays, maintaining their high product quality standards. Each unit was tested in our thermal chamber for fluctuations in heat and atmospheric conditions.

Many scoreboards, transportation schedule displays and entertainment video displays in hotels and casinos are powered by Wall Industries.