

# CUSTOM PRODUCTS

## CUSTOM PRODUCTS OVERVIEW

QED is able to provide custom designed and built power distribution and control for your specific needs. All units are both mechanically and electrically engineered to provide a practical and cost effective solution to the customers requirements. This is far beyond just throwing a collection of panels into a road case. Both mechanical and electrical drawings are produced for customer approval, for each custom project. As with all QED products, the custom units are built with the same high quality components and workmanship, which has made QED's reputation for quality and reliability. And of course all work is ETL listed to conform to either UL508A or UL1640.

Below are examples of the custom designs we have produced.

## CUSTOM POWER DISTRIBUTION FOR INSTALLATIONS

The design called for 12-20amp 110v, and 4-3 phase 30amp circuit distribution for a fixed installation. The unit was designed to make the installation practical within a very tight area. It features a swing out wall enclosure to allow access to the main power terminations. The unit is also 100% rated and ETL listed.



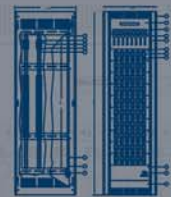
## CUSTOM PATCHING AND WIRING SYSTEMS FOR INSTALLATIONS

The customer required a patching and wiring system that would allow them to use rental dimmers within their fixed installation studio. The system provides wiring termination for the studio's automated hoist system; plus allowing a compact yet accessible 2.4 kW patch. The unit was built using a swing out wall-mounted enclosure allowing ease of installation. Again the system is ETL listed.



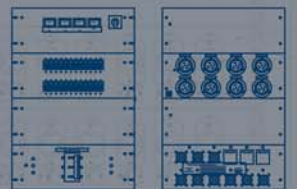
## CUSTOM MOTOR CONTROL SYSTEMS FOR INSTALLATION

QED has provided various configurations of motor control systems that include: both power and control, just control distribution, and motor patching systems as in this example. Grid mount outlet boxes are also provided using the customer's specified connectors. Custom control remote stations are built to the customer's specifications. All the internal wiring is labeled clearly and terminated neatly, to allow ease of installation. Again all systems are ETL listed.



## CUSTOM PORTABLE POWER DISTRIBUTION AND CONTROL

If our standard portable products don't fulfill your requirements, we can build to your specifications. As with our standard products all units are built to be rugged and reliable, as well as taking into account both truck packs and electrical services provided within a venue. In this example the specification called for a 100% rated and 100% duty cycle system with power monitoring. No problem, that's what we do and of course it's ETL listed.



QED is proud to be ETL listed and conform to  
**standard UL 1640**  
**standard UL 508A**

# ENGINEERING SERVICES

## ENGINEERING SERVICES

As QED has strived to design and manufacture high quality listed power distribution and control for both the portable and installation markets, an experienced engineering staff has been assembled. Coming from both the pure engineering and theatrical fields, QED has a wealth of experience and a depth of knowledge not found in many companies. We are now in the position to offer this resource to our customers.

- **You have an equipment list for your studio installation, but you're not sure if everything you need has been included?**

The staff at QED has years of experience in evaluating equipment lists and filling in the blanks.

- **You want turn your equipment list and lighting plot into a real specification drawing?**

QED has the tools and expertise to produce high quality engineering drawings.

- **You want to turn your specification drawing into a full installation drawing set, calling out both mechanical and electrical requirements for use by architects and contractors?**

The staff at QED has provided this service for years at other well-known systems groups, from TV studio's and theatres to theme parks. Our expertise is at your service.

- **You have been given the job of installing a lighting or rigging system in a corporate studio, a church, a high school, or college, but you don't have a theatrical engineering department in your back pocket!**

QED can be your own engineering department, helping you through the project from soup to nuts.

QED can also provide product development services such as; Circuit board design and manufacture, Software development and product production to ETL standards.

QED can also provide custom engraving and routing services, using our state of the art CNC engraver / router system.

QED's staff has a range of qualifications including BSc and BSc (Hons) in Engineering, Electrical Engineering, and Applied Physics. All have been working in the theatrical, TV and Touring industry at a practical level for many years. We are happy to offer our expertise and experience as a service to our customers.



QED is proud to be ETL listed and conform to  
**standard UL 1640**  
**standard UL 508A**