



Federal Systems Integrated Solutions delivers comprehensive offerings of products and services for the ultimate in power reliability.

#### **Power Protection Products**

- ▶ UPSs (single & three phase)
- **▶** TVSSs
- **▶** Flywheels
- **PDUs**
- ► Transfer Switches
- ▶ HVAC Systems
- ▶ Transformers & Voltage Regulators
- Batteries
- Switchgear
- Software
- ▶ Power Generation Systems (standby & prime)
- ▶ Load Banks
- DC Rectifiers

#### **UPS System Configurations**

- ▶ Single Module
- ▶ Double Redundant Module
- ► Hot Tie Separate Multi Module system w/automatic paralleling capability
- ▶ Redundant Module
- ▶ Parallel for Capacity

#### **Integrated Solutions Services**

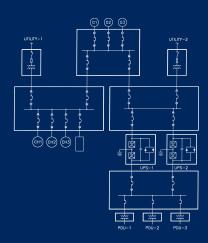
- **▶** Installation
- ▶ Maintenance
- ▶ Project Management
- **▶** Testing

- Training
- Engineering
- ▶ Logistics Support
- Modifications

#### Ideas in action

Effective power protection goes beyond having the industry's most advanced UPS products, one solution for every problem, or a solution that only works under certain conditions. It's a global approach that makes the optimal Engineered Solution available to everyone.

## The one source solution



# The world's premier supplier of Integrated Power Solutions

Like no other offering in the power protection industry, Powerware Federal Systems provides a combination of resources to match your exact needs. When those needs change, we have the flexibility to meet each of our customers' unique requirements effectively and efficiently.

## **Project Management**

The complexity of your power protection needs may require the services of our Project Management staff. Federal Systems Integrated Solutions provides all technical and management expertise necessary to successfully complete your project on-time and within budget. In addition to overall project technical requirements, our innovative Project Management team can provide:







- ▶ Feasibility Studies May be done to evaluate a conceptual projects' merits, and can include technical evaluations, alternatives, budgets, reliability, and return on investment.
- ▶ Planning Project Management provides additional levels of planning to ensure seamless integration of all project phases, including design, procurement, shipping, installation, training, maintenance, and documentation.
- ▶ **Scheduling** Our Project Managers utilize the most powerful scheduling tools to track progress of project tasks and milestones to ensure on-time completion.
- ▶ **Procurement** We bring a select group of highly qualified suppliers of OEM equipment to meet the needs of your project. Our extensive purchasing power allows us to negotiate for the highest quality and best value.
- ▶ Cost Control Federal System's Project Management team brings years of practical business experience to our power protection integration business. They know that on-time delivery of a quality project must be matched with continuous oversight of all costs for equipment and services.

## Engineering

The Federal System's Integrated Solutions team includes experienced engineering professionals that design power protection systems on a daily basis. Our engineers work hand-in-hand with you to maximize your power protection system. Some of the engineering services offered are:

- ▶ Site Surveys We can perform site surveys to evaluate the existing site conditions, including physical layout, existing and future building loads, and building usage. We will evaluate the requirements of the power protection system and provide a proposed solution.
- ▶ Analysis Analyses can be performed for cost/benefit, power protection coordination, short circuit, product selection, and reliability. Results are provided to the customer in a structured format for easy interpretation of findings.
- ▶ Design Our team prides itself on the completeness, accuracy, constructability, and operation of our power protection system designs. We provide levels of detail to ensure smooth system installation and startup. We can provide standard or customized designs to match our customer's needs.

### Expertise makes the difference

We have various contracts available for the procurement of single or program purchases for Government, Commercial, Industrial and Institutional customers.

- Fixed Price
- Cost Plus Fee
- Time and Material (T & M)
- Performance Based
- **Specification** All designs are normally accompanied by specifications for equipment, installation materials, installation and testing methods, and document submittals.
- ▶ Estimating Our exceptional estimating capabilities are important to our customers due to the criticality of funding for projects regardless of size. We also provide continual refinement of estimates as projects proceed from concept to completion.
- ▶ Statement Of Work Complex projects normally require the use of Statements Of Work (SOWs) to ensure complete communication of project needs to all involved parties, including the customer, subcontractors, Powerware, and OEMs. These SOWs reference the project design drawings, specifications, and schedule.

## Deployment

After Federal Systems engineering staff skillfully assesses the customer's power quality requirements and designs effective solutions, those solutions are ready to be deployed. Deployment involves installation, startup and testing, and operator familiarization.

- ▶ Installation We stand ready to implement the solutions we design. Recommendations are carried out through turn-key construction/installation, which is managed by a Project Management staff that has vast experience in providing power quality solutions. Our list of installations includes customers from Federal, State & Local Agencies, and Commercial & Industrial businesses. Our customer's often have critical missions requiring no installation downtime a requirement we are able to fulfill.
- ▶ Startup and Testing Our overall responsibility is to validate total power system operation. Following installation, trained service engineers will perform initial system startup and verify overall system operation. Multiple levels of testing services can be accomplished as required.
- Operator Familiarization After system startup, initial operator familiarization training is completed. Once training is accomplished, site personnel will be able to proficiently perform power protection equipment startup and shutdown.





## Logistics support

Logistics support is an integral part of planning and design for all Federal Systems projects, to ensure that life cycle costs are minimized. Some of the services offered are:

- ▶ **Training** If desired, we can provide additional power protection system training after installation. For UPS equipment all levels of training classes can be held on-site or at our state of the art national training center.
- **Documentation** Powerware Federal Systems can consolidate power protection system documentation and provide it in various medium including CD Rom, microfiche, and hard copy.
- ▶ Maintenance We offer various preventative and corrective maintenance packages ranging from one to five years.

  Maintenance on installed equipment is accomplished by factory trained customer support engineers. As emergencies arise, these highly qualified support engineers are available on a 7 x 24 basis to restore the system to normal operation.
- ▶ Spare Parts Depending on your mission requirements, standard and custom spare parts kits are available for your power protection equipment per commercial or military standards.

#### Partners in Power

We bring more than our own experience and accomplishments to meet your Power Quality objectives. We also bring the power of our partnership with the Invensys family of companies and other power partners.

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