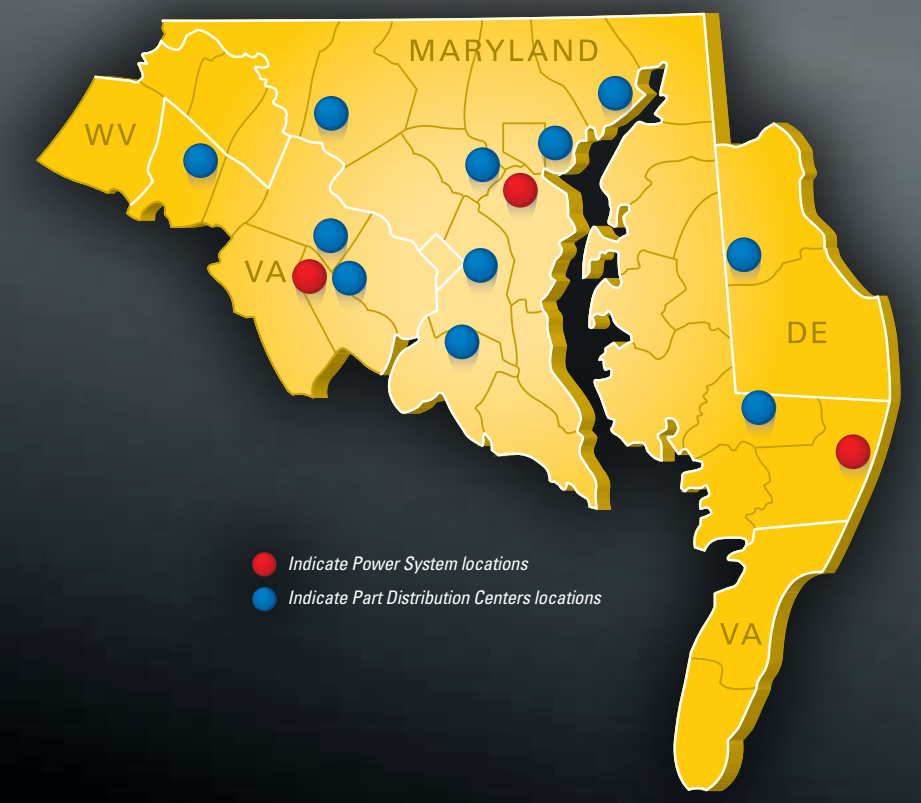


WE ARE WHERE YOU ARE.



ALBAN CAT POWER SYSTEMS was originally established as a distinct business unit under Alban Tractor Company, in 1972, to focus on the distribution and support of Caterpillar engine products into the electric power, marine, truck and industrial markets. Today ACPS is headquartered in Elkridge, Maryland and employs over 150 with three dedicated operational locations in Northern Virginia and Maryland. Since 1972, ACPS has become the market leader in on-site power generation and distribution systems design, engineering, construction, commissioning and product support.



www.alban-cat.com
800-443-9813



MARYLAND

- **Abingdon - Full Service Branch**
1307 Governor Court - Abingdon, MD 21009
- **Annapolis Junction - Used Equipment Center // Rental Store**
11030 Guilford Road - Annapolis Junction, MD 20701
- **Baltimore - Corporate Offices**
8531 Pulaski Highway - Baltimore, MD 21237
- **Baltimore - CCE Showroom // Rental Store**
8427 Pulaski Highway - Baltimore, MD 21237
- **Baltimore - Parts Distribution Center**
8840 Citation Road - Baltimore, MD 21221
- **Baltimore - Roman Center // Hydraulic & Machining Shop**
8864 Citation Road - Baltimore, MD 21221
- **Elkridge - Power Systems**
6387 Old Washington Road - Elkridge, MD 21075
- **Myersville - Full Service Branch**
9460 Myersville Road - Myersville, MD 21773
- **Myersville - Truck Service // Rental Store**
3005 Ventry Court - Myersville, MD 21773
- **Ocean City - Power Systems**
12904 Sunset Avenue - Ocean City, MD 21842
- **Salisbury - Parts Branch**
1770 Westwood Drive - Salisbury, MD 21801
- **Upper Marlboro - Full Service Branch**
8400 Westphalia Road - Upper Marlboro, MD 20774
- **Waldorf - Parts Branch**
22 Irongate Drive - Waldorf, MD 20602

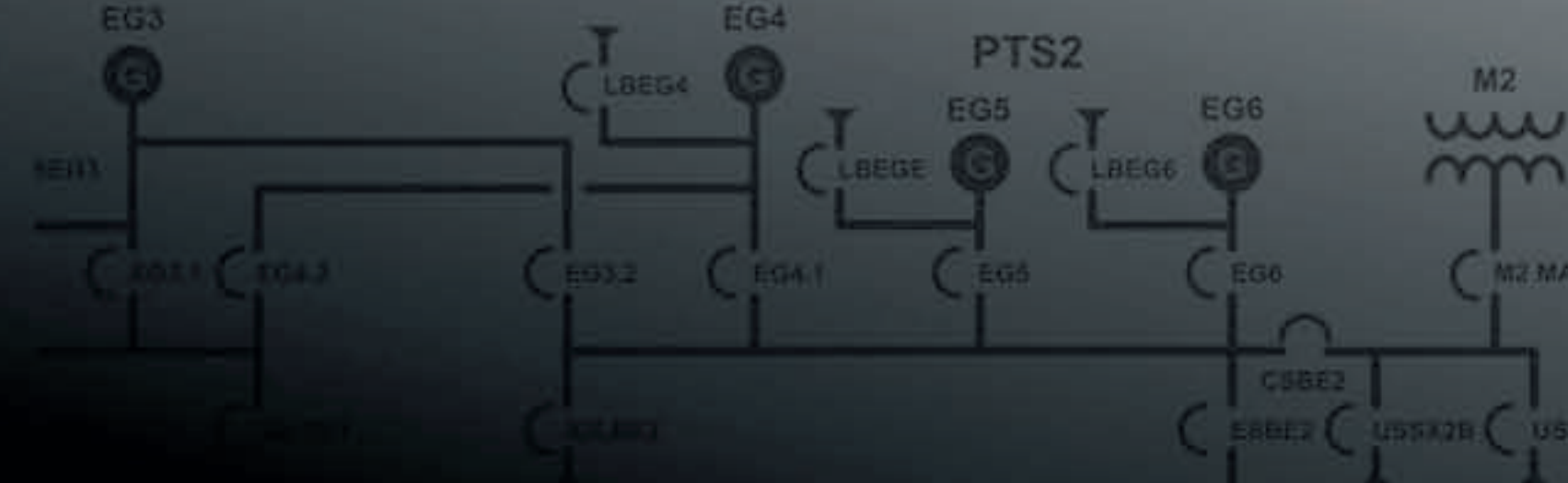
DELAWARE

- **Felton - Full Service Branch**
13074 S. Dupont Highway - Felton, DE 19943

VIRGINIA

- **Manassas - Power Systems**
11441 Robertson Drive Manassas, VA 20109
- **Manassas - Parts Branch**
10330 Frosty Court - Manassas, VA 20109
- **Sterling - Full Service Branch**
1201 Severn Way - Sterling, VA 20166
- **Winchester - Full Service Branch**
351 Zachary Ann Lane - Clear Brook, VA 22624

YOUR POWER SYSTEMS PARTNER



SYSTEMS SOLUTIONS GROUP

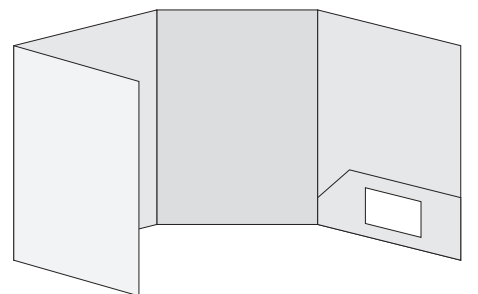


back cover



die cut slits on pocket for business card
position business card slits on pocket
*slits indication on pocket does not print

front cover



Sample for fold

die cut and trim for pocket

fold

fold

fold

SYSTEMS SOLUTIONS GROUP IS YOUR FIRST CHOICE FOR...

INNOVATION/RETROFIT

REPAIRS, MAINTENANCE & TESTING



Bring your switchgear into the 21st century with innovative solutions provided by Alban CAT[®].

When it comes to automated switchgear (Relay logic or PLC) typically the Power Assembly can endure one to two upgrades before it should be replaced. Most of this is due to the advancements of technology. It should be understood that automated components are obsoleted long before components of the Power Assembly.

Combining cost savings of construction and new switchgear, controls only retrofits are viable options to upgrade your facility while reducing your overall investment. Our application engineers will visit your facility and walk the site to determine your needs.

Our control architecture is based on Momentum PLC's, but we have developed automation platforms in Quantum (Concept and Unity) and Allen Bradley.

Our HMI Platform is based on RsView 7, and we have developed HMI solutions in Siemens WINNCC and Wonderware.

Alban's Field Engineers have been trained and qualified to support all CAT[®] Switchgear products.

At Alban we realize that not all customers require PLC automation. There are several relays in the market that provide a Main-Tie-Main transfer scheme built into the logic.

Perhaps your facility requires the benefits of Arc Flash reduction or Arc flash protection scheme.

Or perhaps you would like to integrate your switchgear into your legacy switchgear, but not sure how to get there.

Just call us and we will be more willing to support your needs.

Our field engineers have experience with SEL[®], GE Multilin[®], Basler[®], and ABB protective relays.

NOTE: For Arc Flash protection we suggest ABB REA[®] or SEL[®] 751G relays.

Like Paralleling switchgear, genset packages can easily outlast their control systems. Caterpillar[®] is now offering a standard EMCP 4.3 upgrade kit for all EMCP 1, EMCP 2, EMCP 2+, and EMCP 3.

The EMCP 4.3 controller offers more features and communication options than what was available with the older EMCP models.

- Ethernet
- RS-485
- Modbus Communications
- Programmable I/O Modules
- RTD Modules

And many other additional features and benefits.

If you would like to mount your EMCP remotely in order to put some space between you and your genset package, these panels can be mounted in a separate wall mount enclosure.

As with all Caterpillar[®] products our Service team and Field Engineers are more than capable to complete this upgrade for you.

Due to the age of certain genset mounted circuit breakers, you may find out too late that your particular circuit breaker is obsolete.

Don't wait for the circuit breaker to fail to find out the status of the unit.

One of our application engineers can review your serial number off your unit to determine it's availability.

If the unit is found to be obsolete, our staff can work with you to determine your options in replacement of the breaker.

UL 891, UL1558, and UL MV Switchgear up to 35Kv. From simple Service Entrance and Distribution to Multiple Utility and Generator Paralleling Switchgear. Applications include Data Centers to Hospitals, Prime Power, and Peak Shaving there are not many configurations Alban has not worked on.

Alban's Field Engineers have been trained on the most recent standards regarding maintenance and testing for switchgear.

- Circuit Breakers
- Protective Relays
- Voltage Transformers
- Current Transformers
- Thermography

With the ever increasing regulation for safety in the electrical industry, your first line of defense in arc flash protection is provided by your circuit breaker.

The arc flash calculations provided in your arc flash study are calculated on the breaker's ability to clear a fault in a certain amount of time.

If the breaker is slow in responding to a fault, the safety boundaries specified in the study are voided. The longer your breakers go without servicing, the greater the potential is for the breaker not clearing the fault in the specified time.

Performing regular maintenance and testing will ensure your breakers are clearing the fault in the specified time frame.

From low voltage molded case circuit breakers to 35Kv medium Voltage circuit breakers, Alban's Field Engineers have been trained to perform maintenance, testing, and repairs on a wide variety of circuit breakers in order to verify the breaker is capable of clearing a fault in the specified time provided in the coordination study.

Alban's Field Engineers have been trained on the most recent standards regarding maintenance, testing for circuit breakers and primary current injection testing.

- Visual Inspections
- Mechanical Operation
- Lubrication (Where specified)
- Insulation Testing
- Trip unit Testing
- Secondary Current Injection Testing

In a Medium Voltage application the protective relay serves as the trip unit for the breaker. At its basic level the relay will provide the over current protection for the breaker.

Although protective relays are primarily used in Medium Voltage applications, they can be found in low voltage applications as well.

In more sophisticated applications a single relay could be set up to monitor up-to 200 parameters. In order to verify the relay will function as specified by the coordination study the relay must be removed from service and bench tested on site.

These relays provide vital protection for employees against arc flash, electrocution, and vital protection for equipment especially in applications where multiple units are in parallel or where units are paralleled with the utility for any amount of time.

Alban's Field Engineers have been trained on the most recent standards regarding maintenance and testing for electro-mechanical and digital protective relays.

- Visual Inspections
- Mechanical Operation
- Electronic Operation
- Secondary Current Injection Testing

Insulation Testing is how we verify that the insulation for power cables, windings, bus duct, bus work, circuit breakers, transformers, and even control wiring is within acceptable limits.

This testing is especially critical for any equipment that recently suffered a fault. Prior to re-energizing, it is imperative the appropriate test is performed to determine the insulation has not failed.

At Alban our testing program allows us to store this information for historical reference and trending. As the components age, we can tell you if any deterioration of the insulation is occurring.

With this kind of information you can turn an emergency outage into a planned maintenance outage. Thereby reducing cost and downtime.

Alban's Field Engineers have been trained on the most recent standards regarding insulation testing.

- Dielectric Absorption Ratio
- Dielectric Breakdown Test
- Dielectric Withstanding Test
- Insulation Resistance Test
- Polarization Index
- Step Voltage
- Dielectric Discharge
- Historical trending of electrical test



fold

fold

fold

cut and trim for pocket