Company Overview

Accupower Jamaica Limited is a Caribbean based company and operates as a subsidiary of the Florida Headquartered Critical Power Solutions Group. With its office located in Kingston Jamaica and satellite service station in Trinidad, Accupower is the leading provider of sales and support services for the power protection & power quality industries within the region. Founded in 2002, Accupower Jamaica Limited has grown to become the leading power quality company in the English Caribbean with an average annual deployment of over 1.8 MW of power quality equipment. Accupower’s diverse portfolio is second to none as we are authorized agents for the world’s top two industrial electrical manufacturers. We are proud to be the authorized agent representative for Schneider Electric and General Electric Companies through their APC IT Business and GE Digital Energy divisions respectively.

Our strategic partnerships have enabled us to consolidate our position and today, Accupower has evolved into a total solutions architect for the mission critical landscape.

Our Kingston office is fully equipped and serves as our forward base of operation with a total of 25 permanent employees and 7 full time contractors. Our satellite office in Trinidad is located at the Laventille Industrial Complex and is staffed with 2 service Engineers for rapid deployment to our Eastern Caribbean customers. From our Office in Miami, Florida, we operate as Miami Exporters selling into Spanish speaking markets throughout Latin America and the Caribbean.

Our Focus: Mission Critical Landscape

Data Centre & Communications

Utility & Industrial Processing

Healthcare
With our focus being primarily on the Mission Critical Landscape, we have invested significantly in quantity and the quality of our support staff, their equipment, their capacity and their wellbeing. Our engineers are amongst the best trained and best compensated throughout the region. Every Accupower Field Service Engineer (FSE) is fully factory trained and equipped with all the necessary resources to effectively address any and all tasks they are charged with. With significant practical experience and broad exposure to the most complex IT & Industrial processes our engineers are constantly called upon for overseas deployment. This diversity, depth of knowledge and skillset is the key behind our strength. Our mission is to be the conduit through which cutting edge technology and engineering expertise is delivered. Through vision, dedication and commitment; we intend to critically analyze, design and implement solutions fitting our customer’s demand.

Our Portfolio

Accupower Jamaica Limited is the supplier of choice for over 3000 firms both locally and internationally. Our customer base spans all demographics, including, but not limited to Government, Industry, Telecoms, Information Technology, Healthcare, Military, Mining, Home and Small office enterprises, Medium enterprises and Large Corporations.

Our satisfied customers can be found in most CARICOM and some Central American Countries including Jamaica, Haiti, Turks & Caicos Islands, Dominican Republic, Trinidad, Barbados, Guyana, St. Lucia and Suriname. We have held several titles over the years and have been crowned with the distinction of being the supplier of the largest UPS solution in both Jamaica and Haiti. This record remains unbroken in Haiti with our 800KVA Installation which supports a major telecoms company’s critical infrastructure.

Below you will find a partial list of our Portfolio:

<table>
<thead>
<tr>
<th>Customer</th>
<th>Installation Site</th>
<th>Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heart Trust NTA</td>
<td>Islandwide</td>
<td>Over 40 units Ranging from 10-100KVA UPS System</td>
</tr>
<tr>
<td>Digicel Haiti</td>
<td>Port-Au Prince, Haiti</td>
<td>800KVA UPS (N+1), PSG, Transformers, PDUs, Etc.</td>
</tr>
<tr>
<td>Accent Marketing Call Centre</td>
<td>Montego Bay Freezone</td>
<td>160KVA UPS, TVSS, Transformers, etc.</td>
</tr>
<tr>
<td>Ministry of Health (Guyana)</td>
<td>Linden Hospital (Guyana)</td>
<td>300KVA UPS, PSG, PDU, TVSS, Etc.</td>
</tr>
<tr>
<td>Barrick Mines (Dominican Republic)</td>
<td>Pueblo Viejo Mines</td>
<td>44 Units of UPS 20 to 100KVA for Protecting Mine Control Centres</td>
</tr>
<tr>
<td>JAMALCO</td>
<td>Clarendon Alumina Works, Mount Oliphant Works, Rocky Point Ports</td>
<td>Over 120 UPS Units of 6 – 40KVA for Protecting Plant Control Centres</td>
</tr>
<tr>
<td>Sagicor Group</td>
<td>Head Office and Regional Offices</td>
<td>Over 50 UPS Units 6 – 80KVA</td>
</tr>
<tr>
<td>Modern Power &amp; Cooling Technology</td>
<td>NCB Customer Contact Centre, Trafalgar Road</td>
<td>2 X 160KVA UPS, PDU, etc</td>
</tr>
<tr>
<td>Bank of Jamaica</td>
<td>Nethersole Place &amp; Knutsford Boulevard</td>
<td>2 40KVA Units for central Data Centre and Backup Centre</td>
</tr>
</tbody>
</table>
The above list is but a partial listing of clients and facilities we protect but gives a fair representation of our depth and coverage.

Our Partners/Brands

Accupower represents some of the world’s biggest and most powerful brands. With our powerful brand recognition and product range, we are able to deploy solutions for a single PC to the largest imaginable application. Please take a few minutes to become familiar with our partners:

For over a century GE has led the way in technology and innovation. Founded in 1892 by Thomas Edison, GE has remained at the forefront of modern industries. Today the General Electric Company is headquartered in Fairland, Connecticut, USA and operates in more than 100 countries worldwide. With its more than 380,000 employees, GE operates as an infrastructure and financial services company worldwide. The company has divisions operating in most market segments to include Technology, Oil, Gas, Aviation, Lighting, Mining, transportation, information technology, Security, etc. GE has the ability and capacity to deploy your project no matter the size or scope.
Founded in 1981 APC has remained relevant in today’s "always on, always available" world where business continuity is paramount and downtime is measured in dollars. American Power Conversion (APC) provides protection against some of the leading causes of downtime, data loss and hardware damage: power problems and temperature. As a global leader in network-critical physical infrastructure (NCPI) solutions, APC sets the standard in its industry for quality, innovation and support. From their corporate headquarters in West Kingston, RI, APC operates sales offices throughout the world and manufacturing facilities on three continents. Together, APC’s global teams work to fulfill their mission of creating delighted customers. To do this, the Company focuses its efforts on four primary application areas: Home/Small Office; Business Networks; Data Centers and Facilities; and Access Provider Networks. Known for its quality, innovation and industry leading service and support, APC has perhaps the longest list of accolades in its industry. Not satisfied with this, APC is working diligently to achieve its corporate mission of creating delighted customers by improving the manageability, availability and performance of information and communication systems through the rapid delivery of innovative solutions to real customer problems.

Established in 1986, CSB Battery Co., Ltd. is a leading global manufacturer of Valve Regulated Lead-Acid (VRLA) batteries providing over 4 million batteries monthly. CSB’s products are utilized in over 100 countries for telecommunications, UPS (Uninterrupted Power Supply), Solar, Wind Power, emergency lighting, security and many other additional applications. From its headquarters in Taipei, Taiwan stringent quality control is monitored and maintained in its production facilities in Taiwan, Vietnam & China. CSB operates regional offices in Texas, USA, Netherlands, Germany, Italy, Spain and a global network of distributors.

Linkbasic is a total solution supplier of professional integrated cabling, cabinet and related Net-Connect products. In the past 15 years, they have been dedicating themselves to providing copper cable and fiber optical cable solutions used in voice, video and audio signal transmission. Linkbasic fully dedicates itself to the job of fulfilling all clients' requirements, seizing new technology trends and investing in the development of new products. Their innovations endow the products with features such as good expandability, easy usage and high efficiency. As a prominent total cabling solution supplier, the highly qualified designers of Linkbasic keep designing, developing and working out innovative solutions for clients all over the world. Advanced end to end solution helps all kinds of enterprises to enjoy high speed and safe data transmission in communication network. They keep exceeding and dedicating themselves to establish a high level marketing team in both mainland China and abroad and make their products the best choice all over the world. Linkbasic has sales representatives and distribution channels in 6 continents. The full range of products and service resources can meet the requirements of clients from within the region and worldwide. Every member of the team cooperates with each other to satisfy
the clients. All measures taken above serve one aim, which drives Linkbasic towards development and the provision of reliable and better services to clients from different industries and regions. The professional technical staff of Linkbasic will always offer the help needed from the very beginning of project evaluation to the fulfillment of network communication. Whatever the stage of your project is, it is their honor to provide you all-round service.

Power Distribution Incorporated (PDI) is North America’s largest independent designer, manufacturer, and service provider of mission critical power distribution, static switching, and power monitoring equipment for corporate data centers. PDI has been in the data center market for over 25 years and has the widest range of products in the industry. The core distribution products are remote power panels, power distribution units, and static transfer switch systems with a wide array of monitoring options centered on PDI’s patented Branch Circuit Monitoring System. The PDI product lines are supported by an industry best sales and service organization throughout the world. Power monitoring, remote power panels, power distribution units, static transfer switch systems, global maintenance bypass cabinets, isolation transformers, redundant power distribution systems, voltage regulators, computer cables, etc. PDI’s corporate headquarters and Manufacturing facilities are located in Richmond, Virginia, USA.

Airedale Air Conditioning is a British manufacturer with over 40 years’ experience. As the UK’s number one provider of chillers, precision air conditioning and IT cooling solutions and at the forefront of controls software design and optimization, they are experts in integrating products to reduce total cost of ownership. Airedale is a world leader in the design and manufacture of innovative, high efficiency cooling solutions with a total customer focused attitude. We manufacture in three continents and export to customers in over fifty countries, across commercial, industrial and public sectors. Since 1974, their core business has been precision air conditioning. Today their customers also benefit from our extensive experience in chillers, IT Cooling, condensers, condensing units, comfort cooling and air conditioning controls software design and optimization. They are specialists in the design of super-efficient, integrated cooling solutions that provide real end user benefits in reducing power consumption and operational costs. Applications include data centres, clean rooms, retail, leisure and process cooling.

Geist designs and manufactures industry leading technology and software for powering, monitoring, cooling and managing critical data center infrastructure. Geist produces affordable, quality products while providing their clients with superior service. Whether it’s enhancing customer care services or implementing new technologies, Geist promotes innovation, quality and satisfaction in all aspects of business. Geist offers the broadest range of power distribution units (PDUs) and custom options available, from robust basic units to sophisticated outlet level switching units. Geist specializes in build-
to-order PDUs that meet the unique needs of each application. Geist’s array of monitoring products protect critical data center equipment by tracking environmental factors such as heat, humidity, water leakage, electricity, smoke and intrusion. Users can monitor a single element or create an intricate framework of sensors and cameras to observe large data centers, server rooms and network closets. Data collected by the unit is sent to a Web portal or Geist’s line of management software where it can alert users of potential threats or problems immediately.

**Product Portfolio**

**Uninterruptible Power Supply (UPS)**

Typically a UPS is a piece of equipment that sits between the utility supply and your critical load. This piece of equipment is supposed to protect the critical load from power anomalies, at least this is what most customers believe and expect; however the level of protection your UPS provides is dependent on the topology upon which the UPS is built. There are three primary topologies widely used and there are significant variations among them and the quality of protection they provide.

**Offline- UPS** are relatively cheap and provide the least level of protection. During normal operation, the incoming power is fed to the critical load. The UPS switches to inverter/backup mode when there is a utility failure.

**Line Interactive- UPS** are considered mid-range and provide limited protection. During normal operation, the incoming power is fed to the critical load via a voltage regulator. The UPS switches to inverter/backup mode when there is a utility failure.

**Online- UPS** are considered high end and provides maximum protection. During normal operation, the incoming power is used to keep the batteries charged but not fed to the load. The critical load is always supplied by the inverter and is 100% protected.

**Online with transformer- UPS** are considered high end and provide maximum and enhanced protection. During normal operation, the incoming power is used to keep the batteries charged but not fed to the load. The critical load is always supplied by the inverter via an isolation transformer and is 100% protected.

**Storage Power Component (Battery)**

A battery is a device that converts chemical energy into electricity. This is done by apportioning certain chemicals to react with each other in a specific way. When these chemicals react, electrons will flow from one chemical to the other. When electrons flow, this makes electrical current. The current that is produced is a direct current (DC) and can be used to power varying load types. Batteries come in several styles, shapes and composition. A battery is designed and built for a specific application and the durability and dependability is influenced by the right battery being used for the specific application for which it was built.
Network Connectivity

At the core of business continuity is communication. Accupower provides the full range of wired (copper & Fiber) and wireless network connectivity hardware and peripherals. Communication is the process of information exchange between two or more entities using common language that is clearly understandable amongst all parties within the group. Equipment and technology are constantly evolving thus making communication faster, cheaper and more critical to day to day human functions. At Accupower, we are playing our role as front runners in the ever changing communications environment and today our products are keeping businesses connected like never before.

CRAC/Precision Cooling Units

A computer room air conditioning (CRAC) unit is a device that monitors and maintains the temperature, air distribution and humidity in a network room or data center. CRAC units are replacing air-conditioning units that were used in the past to cool data centers. According to Industrial Market Trends, mainframes and racks of servers can get as hot as a seven-foot tower of powered toaster ovens, so climate control is an important part of the data center’s infrastructure.

Environmental Monitoring Solutions

Environmental factors like heat, humidity and moisture pose a severe threat to your mission-critical infrastructure. These dangers can be minimized by incorporating a network of Accupower’s Geist sensors to collect data and alert users to potential threats. Our line of monitoring products allows users to observe conditions from a secure Web interface and receive SNMP, email, text message or voice call alert notifications when environmental sensors detect a problem.

Critical Solutions Infrastructure

Critical infrastructure is a significant investment that cannot be left to chance or based upon a wish. Accupower will design, build and deploy your infrastructure solution project from conception to operation without compromised. Our Approach is the utilization of multi platform solutions based upon diversified products enabling our clients to benefit from the best of all worlds.
Data Center Design

A data center is a facility that centralizes an organization’s IT operations and equipment, and where it stores, manages, and disseminates its data. Data centers house a network’s most critical systems and are vital to the continuity of daily operations. Consequentially, the security and reliability of data centers and their information is a top priority for organizations.

Data center designs are unique and purpose built based on the requirements of each individual organization, however regardless of the uniqueness and often times the personal touch that goes into a data center, the core elements that construct a data center remains the same and are as follows:

- **Facility** – the location and “white space,” or usable space, that is available for IT equipment. Providing around the clock access to information makes data centers one of the most energy consuming facilities in the world. A high emphasis is placed on design to optimize white space and environmental control to keep equipment within manufacturer-specified temperature/humidity range.

- **Support infrastructure** – equipment contributing to securely sustaining the highest level of availability possible. The Uptime Institute defined four tiers data centers can fall under with availability ranging from 99.671% - 99.995%. Some components for supporting infrastructure include:
  - Uninterruptible power sources (UPS) – battery banks, generators, and redundant power sources
  - Environmental control – computer room air conditioners (CRAC), heating, ventilation, and air conditioning (HVAC) systems, and exhaust systems
  - Environmental Monitoring – environmental sensors and probes to alert IT Personnel
  - Physical security systems – biometrics and video surveillance systems

- **IT equipment** – actual equipment for IT operations and storage of the organization’s data. This includes servers, storage hardware, cables, and racks, as well as a variety of information security elements such as firewalls.
• Operations staff – to monitor operations and maintain IT and infrastructural equipment around the clock

Despite the dynamic and ever-changing landscape of Data Center design; the need for robust and highly efficient support infrastructure remains constant.

We here at Accupower Jamaica Limited have shaped our product portfolio to cater specifically to Data Center design. With our line of General Electric (GE) and APC by Schneider Electric brand of UPS and SPD Systems. Airedale CRAC/Precision Cooling units, Linkbasic total Networking Solutions, Watchdog by Geist Global Environmental Monitoring Systems and Biometric and Video Surveillance Access Control Systems we are able to offer our clients a total and complete Data Center buildout from start to finish. We pride ourselves in our ability to construct, retrofit and maintain any sized Server Room and/or Data Center; with a mixture of young creative minds and highly experienced and extensively trained personnel we will see the construction and implementation of a truly modern and an exceedingly efficient Data Center, purpose built to yield maximum benefits to your organization.

**Now into the next**

Our growth and development has been consistent and exciting. Today Accupower is a fully diversified and dynamic organization. We have invested heavily in our personnel, plant and equipment, these investments have enabled us to foster and maintain a very strong and loyal customer base. We share excellent relationships with our suppliers and have consistently met and in many instances exceeded their expectations. Accupower has been able to navigate the very choppy waters of the modern business environment and have met all challenges head on with the firm conviction that we are the best at what we do, possessing the requisite knowledge and resources for strategic deployment.

Going forward, Accupower will continue to evolve but will remain true to our founding principles. We will continue to deploy solutions that amaze and excite our customers but more importantly meet their critical infrastructure needs. We are excited about the future, so why shouldn’t you be? Make that change today; call Accupower and start enjoying the accurate advantage…