IEM Power Systems delivers **high reliability and efficiency** — ensuring **complete protection** of critical electrical loads, and **low cost of ownership**.

**Simply Reliable Solutions to Power Quality Issues**

Banks, Data Centers, Telecoms, Airports, Manufacturing Processes & Major Research Projects, in fact all installations where continuous running is required, demand a filtered, continuous and sustainable power supply solution.

IEM Power Systems™ can guarantee the availability of high quality power with our RBT rotary UPS (Uninterruptible Power Supply).

We have over 25 years’ experience in the design and manufacture of rotary UPS systems. IEM Power Systems provides a high level of reliability and efficiency ensuring total protection of essential electrical loads and low cost of ownership for the lifetime of your facility.

Our team of experienced engineers and technicians will partner with you to identify your needs, develop an optimal design and implement the system in your facility.

---

**IEM Power Systems delivers high reliability and efficiency — ensuring complete protection of critical electrical loads, and low cost of ownership.**

**ROTABLOC RBT**

Rotary UPS Systems

**Simply Reliable Solutions to Power Quality Issues**

Banks, Data Centers, Telecoms, Airports, Manufacturing Processes & Major Research Projects, in fact all installations where continuous running is required, demand a filtered, continuous and sustainable power supply solution.

IEM Power Systems™ can guarantee the availability of high quality power with our RBT rotary UPS (Uninterruptible Power Supply).

We have over 25 years’ experience in the design and manufacture of rotary UPS systems. IEM Power Systems provides a high level of reliability and efficiency ensuring total protection of essential electrical loads and low cost of ownership for the lifetime of your facility.

Our team of experienced engineers and technicians will partner with you to identify your needs, develop an optimal design and implement the system in your facility.

---

**IEM Power Systems delivers high reliability and efficiency — ensuring complete protection of critical electrical loads, and low cost of ownership.**

**ROTABLOC RBT**

Rotary UPS Systems

**Simply Reliable Solutions to Power Quality Issues**

Banks, Data Centers, Telecoms, Airports, Manufacturing Processes & Major Research Projects, in fact all installations where continuous running is required, demand a filtered, continuous and sustainable power supply solution.

IEM Power Systems™ can guarantee the availability of high quality power with our RBT rotary UPS (Uninterruptible Power Supply).

We have over 25 years’ experience in the design and manufacture of rotary UPS systems. IEM Power Systems provides a high level of reliability and efficiency ensuring total protection of essential electrical loads and low cost of ownership for the lifetime of your facility.

Our team of experienced engineers and technicians will partner with you to identify your needs, develop an optimal design and implement the system in your facility.
IEM Power Systems delivers **high reliability and efficiency** — ensuring **complete protection** of critical electrical loads, and **low cost of ownership**.

Data Centres
Banking
Telecommunications
Airports
Healthcare
Industrial
Manufacturing
Government
Defense
Water Treatment
Alternative Energy
Stadiums
Research

**ROTABLOC RBT**
Rotary UPS Systems

Simply Reliable Solutions to Power Quality Issues

Banks, Data Centers, Telecoms, Airports, Manufacturing Processes & Major Research Projects, in fact all installations where continuous running is required, demand a filtered, continuous and sustainable power supply solution.

IEM Power Systems™ can guarantee the availability of high quality power with our RBT rotary UPS (Uninterruptible Power Supply).

We have over 25 years’ experience in the design and manufacture of rotary UPS systems. IEM Power Systems provides a high level of reliability and efficiency ensuring total protection of essential electrical loads and low cost of ownership for the lifetime of your facility.

Our team of experienced engineers and technicians will partner with you to identify your needs, develop an optimal design and implement the system in your facility.

**IEM Power Systems™** can guarantee the availability of high quality power with our RBT rotary UPS (Uninterruptible Power Supply).

We have over 25 years’ experience in the design and manufacture of rotary UPS systems. IEM Power Systems provides a high level of reliability and efficiency ensuring total protection of essential electrical loads and low cost of ownership for the lifetime of your facility.

Our team of experienced engineers and technicians will partner with you to identify your needs, develop an optimal design and implement the system in your facility.

©2015 The New IEM LLC. Industrial Electric Mfg. ™ and IEM Power Systems ™ are trademarks of The New IEM LLC in the U.S. and other countries. ROTABLOC® is a registered trademark of IEM Power Systems SA in the U.S. and other countries. All rights reserved.

ISO 9001 Certified
Simplicity. Reliability. Low Cost of Ownership.

The RBT is a compact, efficient, conventional electrical and mechanical component. Its simplicity is key to very high reliability and low service costs, which is essential in energy-hungry areas where the cost of UPS losses and equipment for air conditioning, produces a very low Total Cost of Ownership. The system consists of a standard rotating brushless generator with no sparking winding and a solid-state (bifilar) design. The RBT160-DC machine is very robust as critical functions do not use fragile components such as power electronics, power capacitors, or electro-chemical batteries. This makes the RBT very robust as critical functions do not use fragile components such as power electronics, power capacitors, or electro-chemical batteries.

In normal operation the RBT protects the electrical load from all types of power problems such as spikes, surges, brownouts, blackouts, and voltage sags. This power quality protection prevents wear and tear on sensitive equipment, and reduces the risk of downtime. The RBT will continue to protect the electrical load if the mains power fails at any time. Such ‘n+0’ solutions are very efficient, have a lower CapEx cost and are suited to operations where downtime is to be avoided and mains power quality is inconsistent.

**Technical advantages of the ROTABLOC:**

- **High efficiency:** The ROTABLOC is a ‘plug & run’ paralleling system. It can be easily installed, with simple maintenance operations. The RBT is reliably and efficiently employed in these and many other applications worldwide.
- **Total power failure protection:** Employing redundant modules (n+1) in a parallel configuration builds only replacing only your power protection system. It means that even if multiple incidents occur at the same time, the load can still be protected.
- **Full critical load protection:** The RBT is reliably and efficiently employed in these and many other applications worldwide.
- **Automatic Lubrication System for maximum reliability and lowest TCO:** This automatically reduces the risk of downtime.
- **Remote monitoring, alarming and paging features:** This allows you to troubleshoot the problem on the go.
- **Internet access:** This allows you to monitor the system remotely.
- **SCADA / BMS interface via MODBUS RTU/TCP:** This allows you to control the system remotely.
- **Basic interface via simple contacts:** This allows you to control the system manually.
- **User-friendly digital display (HMI)**: This allows you to view the system status and diagnostics.
- **Scalability for future extension:** This allows you to expand your system as needed.
- **Flexibility from day one:** This allows you to customize your system to meet your needs.
- **Suitable for high crest factors (non-linear loads):** This allows you to efficiently power your facility.
- **Suitable for high peak currents (motors and mechanical loads):** This allows you to handle the load.
- **Fast fault-clearing capacity ensuring protections selectivity:** This allows you to quickly return to service.
- **Green technology:** This allows you to reduce your carbon footprint.
- **Low cost maintenance:** This allows you to save money.
- **Sustainable continuous power supply:** This allows you to maintain power quality.
- **Eliminates flicker:** This allows you to improve your facility’s reputation.
- **Low cost of ownership:** This allows you to save money.

**Relevant RBT models and ratings:**

<table>
<thead>
<tr>
<th>Model</th>
<th>50 Hz or 60 Hz</th>
<th>kVA</th>
<th>kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>RBT-500</td>
<td>50 Hz/60 Hz</td>
<td>500</td>
<td>400</td>
</tr>
<tr>
<td>RBT-800</td>
<td>50 Hz/60 Hz</td>
<td>800</td>
<td>640</td>
</tr>
<tr>
<td>RBT-1000</td>
<td>50 Hz/60 Hz</td>
<td>1000</td>
<td>800</td>
</tr>
<tr>
<td>RBT-1200</td>
<td>50 Hz/60 Hz</td>
<td>1200</td>
<td>960</td>
</tr>
<tr>
<td>RBT-1750</td>
<td>50 Hz/60 Hz</td>
<td>1750</td>
<td>1400</td>
</tr>
<tr>
<td>RBT-2000</td>
<td>50 Hz/60 Hz</td>
<td>2000</td>
<td>1600</td>
</tr>
</tbody>
</table>

Parallel Installation

Employing redundant modules (n+1) in a parallel configuration builds only replacing only your power protection system. It means that even if multiple incidents occur at the same time, the load can still be protected.

This approach provides a system with full critical load protection, which is essential where the load must be protected for extended periods at partial load with UPS systems. This ensures that the load is not interrupted by any system failure, ensuring that the load is serviced to the highest standards. The RBT is reliably and efficiently employed in these and many other applications worldwide.

Medium Voltage

Recognition of the advantages of Medium Voltage (MV) switchgear, is the leading MV solution for distributing power to your operation. We are experts in Medium Voltage and can utilize (ME) Vector’s AE-AR resistant metal-clad switchgear, the leading MV solution for distributing power safely and efficiently throughout your building.

**Technical advantages of the MV 50-300 Switchgear:**

- **Containerization:** This allows you to easily transport your equipment.
- **Installations and Medium Voltage Switchgear:**
- **DRUPS manufacturer who can fully integrate and test MV solutions in the factory before shipping:**
- **Medium voltage solutions may allow your facility design to minimize cabling, reduce capital expenditures and the impact of your facility on the environment:**
- **Using medium voltage solutions may allow your facility design to minimize cabling, reduce capital expenditures and the impact of your facility on the environment:**
- **Our state-of-the-art Jacksonville (USA) facility has been designed to test both LV and MV systems and we are the only DRUPS manufacturer who can fully integrate and test MV solutions in the factory before shipping:**

**Technical advantages of the MV 50-300 Switchgear:**

- **De-Coupled from power distribution:** This allows you to operate your facility independently.
- **Sustainable continuous power supply:** This allows you to maintain power quality.
- **Eliminates flicker:** This allows you to improve your facility’s reputation.
- **Low cost of ownership:** This allows you to save money.

**GREEN TECHNOLOGY**

Our high-efficiency UPS supports your aims to minimize your environmental impact and mitigate the effects of rising energy costs in the future. Our ROTABLOC design, validated at ideal and real load conditions, means that your MV solution meets all power quality requirements for electrical standards and regulatory codes. It is tested to meet all current and future requirements for electrical standards and regulatory codes.

- **Low cost maintenance:** This allows you to save money.
- **Sustainable continuous power supply:** This allows you to maintain power quality.
- **Eliminates flicker:** This allows you to improve your facility’s reputation.
- **Low cost of ownership:** This allows you to save money.

**This configuration can be monitored by Rotabloc's customer support team.**

**Medium Voltage Installations - Containerized and UPS**

<table>
<thead>
<tr>
<th>Model</th>
<th>50 Hz or 60 Hz</th>
<th>kVA</th>
<th>kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>RBT-500</td>
<td>50 Hz/60 Hz</td>
<td>500</td>
<td>400</td>
</tr>
<tr>
<td>RBT-800</td>
<td>50 Hz/60 Hz</td>
<td>800</td>
<td>640</td>
</tr>
<tr>
<td>RBT-1000</td>
<td>50 Hz/60 Hz</td>
<td>1000</td>
<td>800</td>
</tr>
<tr>
<td>RBT-1200</td>
<td>50 Hz/60 Hz</td>
<td>1200</td>
<td>960</td>
</tr>
<tr>
<td>RBT-1750</td>
<td>50 Hz/60 Hz</td>
<td>1750</td>
<td>1400</td>
</tr>
<tr>
<td>RBT-2000</td>
<td>50 Hz/60 Hz</td>
<td>2000</td>
<td>1600</td>
</tr>
</tbody>
</table>
The RBT is based upon simple, efficient, conventional and robust technology. Its simplicity leads to very low maintenance costs and is suited to operations where downtime is not an option. Such ‘n+0’ solutions are very efficient, have a lower CapEx cost and are suited to operations where downtime is to be avoided and mains power quality is inconsistent.

**Single Module RBT with Generator for continuous power supply (DRUPS):**

A single module in the basic building blocks for larger scale systems. However, single modules are sometimes deployed as part of a medium voltage design where a simplified, cost-effective solution is needed. The single module is the primary building block and is connected in series to form the necessary power levels. The modules are designed to have high levels of resiliency.

**Feature**

- **Outstanding voltage conditioning**: Optimized protection against voltage fluctuations, sag and surges for critical load equipment.
- **High reliability**: Redundant rotary power generation reduces the risk of single points of failure.
- **Low maintenance**: Lower maintenance and lower downtime.
- **Replaceable flywheels**: Enhanced flywheel technology allows extended bearing life.
- **Redundant module**: Builds extra resiliency into your power protection system. It means that even if multiple incidents occur at the same time, for example, the load is automatically safely transferred to the back-up load ensuring that your operations continue unaffected.

**Parallel Installation**

Employing redundant modules (n+1) in a parallel configuration builds extra redundancy into your power protection system. It means that even if multiple incidents occur at the same time, for example, the load is automatically safely transferred to the back-up load ensuring that your operations continue unaffected.

This approach pushes guaranteed power availability to levels near the 99.999% (5 nines) which is regarded as the ‘holy grail’ of uptime. Such a system is essential only where the load cannot be interrupted. It will be a ‘no-break’ system and can be roll-over configured to allow continuous load and energy from mains.

**Low maintenance**

- **Rental UPS Installations**: IEM Power Systems can offer a wealth of configurations and options including Medium Voltage, Turnkey System Solutions. Medium Voltage is a significant cost and impacts the environment. Whether you employ a low voltage or medium voltage design, our simplified approach minimizes embodied energy costs and maximizes the impact of your facility on the environment. Whether you employ a low voltage or medium voltage design, our simplified approach minimizes embodied energy costs and maximizes the impact of your facility on the environment.
Single Module

RBT with Generator for continuous power supply (DRUPS)

In normal operation, the RBT protects the electrical load from voltage and frequency dips, as well as power surges and transients. This power quality protection prevents wear and tear on sensitive equipment, reduces downtime, and helps to ensure the load and machinery are safe for optimum efficiency.

 Whilst these ‘blackout’ events are fewer in number, for organizations where power is always needed during operational interruptions or main electricity leading to loss of production for short time periods, investment in partial power systems and UPS becomes necessary. This UPS is capable of covering the load and ensure that your operations continue unaffected.

Within these ‘blackout’ events, RBT is deployed in parallel within existing system to provide high levels of resiliency. In “n+0” configurations the RBT is deployed in parallel within existing systems to provide high levels of resiliency. In “n+0” configurations. In ‘n+0’ configurations where voltage regulation and protection against short

High performance, simplicity, reliability and low service costs without need for electronic power conversion. The RBT is based upon simple, efficient, conventional rotating equipment.

The RBT protects the electrical load from voltage and frequency dips, as well as power surges and transients. This power quality protection prevents wear and tear on sensitive equipment, reduces downtime, and helps to ensure the load and machinery are safe for optimum efficiency.

The RBT is reliably and efficiently employed in these and many other applications worldwide. Our highly efficient UPS supports your aims to minimize your environmental impact and mitigate the effects of rising energy costs in the future. Our ROTABLOC design, ultra low and reduced maintenance and our RBT solutions in the factory before shipping.

Using medium voltage solutions may allow your facility design to minimize cabling, reducing capital expenditure and the impact of your facility on the environment. Whether you employ a medium voltage in transmission design, or install low voltage systems in facilities with high power requirements is growing. Recognition of the advantages of Medium Voltage (MV) systems in facilities with high power requirements is growing. It means that even if multiple incidents occur at the same time, for instance, the customer’s load is not disrupted. Under such circumstances, our Medium Voltage system is designed to test both LV and MV systems and we are the only manufacturer who can fully integrate and test MV solutions in the battery before shipping.

Green Technology

Our highly efficient UPS supports your aims to minimize your environmental impact and mitigate the effects of rising energy costs in the future. Our ROTABLOC design, ultra low and reduced maintenance and our RBT solutions in the factory before shipping. Our state of the art Jacksonville (USA) facility has been designed to meet both UL and VDE (German) safety standards and is certified to the highest levels of safety and reliability.

IEM Power Systems can offer a wealth of configurations and options including Turnkey System Solutions, Medium Voltage Installations, Containerization and Rental UPS.
Simply Reliable Solutions to Power Quality Issues

Banks, Data Centers, Telecoms, Airports, Manufacturing Processes & Major Research Projects, in fact all installations where continuous running is required, demand a filtered, continuous and sustainable power supply solution.

IEM Power Systems™ can guarantee the availability of high quality power with our RBT rotary UPS (Uninterruptible Power Supply).

We have over 25 years’ experience in the design and manufacture of rotary UPS systems. IEM Power Systems provides a high level of reliability and efficiency ensuring total protection of essential electrical loads and low cost of ownership for the lifetime of your facility.

Our team of experienced engineers and technicians will partner with you to identify your needs, develop an optimal design and implement the system in your facility.

IEM Power Systems delivers high reliability and efficiency – ensuring complete protection of critical electrical loads, and low cost of ownership.

Data Centres
Banking
Telecommunications
Airports
Healthcare
Industrial Manufacturing
Government
Defence
Water Treatment
Alternative Energy
Stadiums
Research

ROTABLOC RBT Rotary UPS Systems

Protecting Critical Power for Over 25 Years