



Nothing protects quite like Piller

piller.com

Airports & aviation

About Piller



The efficient day-to-day operation of a modern airport relies upon the continuous availability of power quality – nothing protects quite like Piller.

Founded in Hamburg, Germany over 100 years The efficient day-to-day operation of a modern the need to maintain power at all times, especially ago by Anton Piller, the company has a long airport totally relies upon the continuous availability in times of utility outages or other crisis, ensuring history in the manufacturing of high quality electrical of quality power; whether it is 400Hz or 28VDC power is always available to aircraft at civil or machines and power quality equipment. Today, power for aircraft, runway lighting, terminal military installations. Piller is a world leader and innovator in a number buildings or maintenance hangars, instrument of power protection technologies, specialising in landing systems and electronic display boards It Piller is located in Osterode, near Hanover in are found in applications where continuous high results. As one of the world's leading UPS and Langley Holdings plc. quality power is paramount such as airports, data centres, financial institutions, broadcasting, telecommunication networks, healthcare facilities and continuous process production sites.

Piller Frequency Converters and related products are in widespread use across both military and civil applications providing 400Hz ground power systems to airports, ship-to-shore supplies in ports and onboard power systems for both submarine and surface vessels.

Mission-critical power solutions

frequency conversion suppliers. Piller understands

UPS systems for 'mission critical' applications may only be a matter of seconds between power Germany with regional offices in Asia, Europe and Frequency Converters for Aircraft Ground going down and standby generators kicking in and the Americas and is a wholly owned Power amongst other uses. Piller UPS systems but that short delay could have catastrophic subsidiary of the UK based industrial group,







Proven technology



Rotary and Solid State Frequency Converters

In the field of 400Hz frequency converters, Piller's ground power equipment such as APOJET AJS, APOJET AJR and APOJET AJT can be found in operation at major airports and military air bases throughout the world. Piller provides tailor-made solutions for each project. Through continuous research and development a high level of flexibility is guaranteed in meeting clients' requirements. All Piller ground power equipment is designed and built to the highest quality.

Piller equipment at AWACS bases worldwide.

Piller ground support with Solid State Converter.

Frequency Converters Features and Benefits:

- Microprocessor control for voltage regulation and current limiting
- Compact low noise construction
- Low output distortion factor
- Load dependent, phase-to-phase automatic compensation of voltage drop due to long cables using I-Boost®
- Short circuit and overload protection
- User friendly mimic diagram with liquid crystal display
- Event recorder with memory for up to 1200 events
- Input output data showing currents, voltages and loads
- Ground power equipment standard with E&F, 42V safety relay
- EMI/RFI filtering standard on all units
- Low mains current distortion (< 5%)</p>
- Constant output voltage for linear and non-linear loads
- Interface for remote control and centralised monitoring option

Rotary UPS Systems

Piller's rotary UPS solutions are built around the renowned UNIBLOCK[™] system, delivering secured power from 150kVA to 50MVA in both independent and diesel-coupled configurations. The latest evolution, the UNIBLOCK[™] UBT+, offers up to 97% efficiency and highest reliability with state-of-theart technology, unique design and versatile options, making it ideal for new and existing installations. While the UBTD+ diesel-coupled configuration produces the most efficient and reliable power supply possible.

Rotary UPS Features and Benefits:

- Single machines up to 2700kW
- Long and short term bridging applications
- Reliable supply of all load types
- Wide leading and lagging load power factor without de-rating
- Medium and low voltage options
- Battery or kinetic energy store versions
- Total design flexibility
- Containerised solutions





Power solutions



Piller Gate Box.

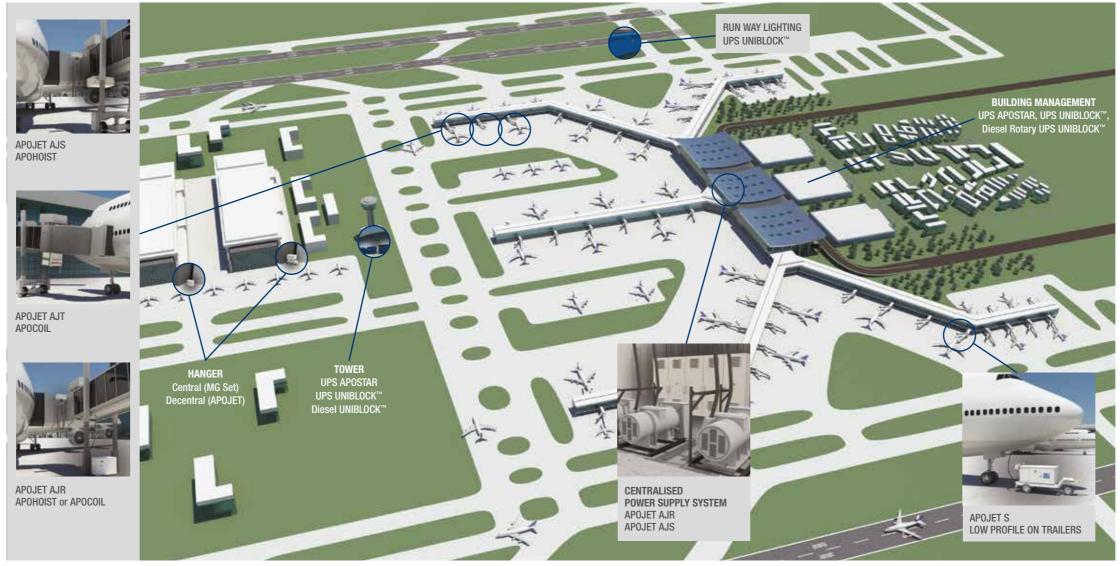


Rotary outdoor GPU APOJET AJR apron mounted.

Piller provides its customers with a complete line of rotary and static (solid state) frequency converters and UPS systems as well as gate boxes, distribution panels and accessory equipment such as cable hoists and retrievers.

Many varieties and configurations of special problem solving systems are also available to ensure clients get the best technical solution and equipment for their particular application. Piller is dedicated to client satisfaction by providing total support during the design stage, installation and especially after commissioning. Piller has a team of many trained technicians strategically located around the world to support its many products.

The diagram illustrates typical applications using Piller equipment to protect critical airport systems and provide quality power to aircraft at the boarding gates and maintenance hangers.





Central system with Piller Motor-Generator Sets.

Critical to safety and on-time take off



Piller Solutions:

- Piller Rotary Diesel UPS systems UNIBLOCK[™] for air side protection of runway lighting and navigation aids.
- Piller central systems are installed at several international airports. Installations include multiple 315kVA auto load sharing and paralleled Rotary APOJETS with distribution switchgear and regulated gate boxes.
- Piller's AJT (line voltage regulator) has been selected by airlines to provide constant voltage without having to replace existing cables from the central power system.
- Piller equipment is supporting assembly and test facilities for commercial aircraft manufacturers around the world.
- Piller builds low profile units in 28VDC as well as 20kVA to 315kVA 400Hz units that can be mobile or sited at the point of use for individual aircraft.







UNIBLOCK[™] Diesel Rotary UPS System.

Every organisation hopes they never have to call upon their UPS systems but with Piller there comes the ultimate peace of mind.

Piller products



UNIBLOCK[™] Rotary UPS and Diesel Rotary UPS systems.



APOJET AJS Combi.

Model/Type		kVA ratings	
	UPS Systems		
UNIBLOCK™	Rotary and Diesel UPS System	from 400kVA - 50MVA	
APOSTAR	Static UPS Systems	from 3kVA - 400kVA	
	Solid State 400Hz Units		
APOJET AJS	Compact	40, 60, 90 120, 150, 180, 200kVA	
	Flat Pack	120, 150, 180, 200kVA	
		All units can be paralleled and used in centralised systems	
APOJET AJS Combi	Compact	40 - 90kVA 400Hz and 28VDC /600A	
28VDC	Small Compact	400A and 600A	
	Rotary 400Hz units		
APOJET AJR	Compact (50Hz/400Hz)	20, 40, 60, 90, 120, 150kVA	
	Compact (60Hz/400Hz)	75, 90, 125, 150, 200kVA	
	MG Sets for centralised systems	250, 315, 380kVA	
		All units can be paralleled and used in centralised systems	
	Automatic Voltage Regulators	400Hz	
APOJET AJT	Gate-Box	90 - 150kVA with or w/o step-down transformer	
	Auxiliary Equipment		
APOCOIL	Bridge or Ground	up to 28m single jacketed cable storage	
APOHOIST	Bridge	Economical cable handling system	
400Hz Distribution Panel		Engineered and customised multi-outputs, kVA ratings on request	











APOJET AJS.

Other units and equipment available on request.

Unrivalled after sales service



Across the globe the Piller network is committed to delivering world-class service resources and Piller clients can always be confident that a highly gualified team of service and support technicians are there to uphold the very best standards of customer care.

Services range from installation and commissioning to predictive analysis, emergency calls, spare parts, planned maintenance and training. A direct link to Piller engineers and technicians through Piller's advanced digital control technology is available on every unit (rotary and static) offering 24/7 Remote Monitoring and Support with total diagnostics and 1,200 event memory.

- Maintenance
- Technical support
- Operator training
- 24 hour call-out
- Temporary UPS systems
- Comprehensive spares
- Remote monitoring
- Worldwide service organisation









HEADQUARTERS **Piller Group GmbH** Abgunst 24 37520 Osterode Germany E: info@piller.com

ROTARY UPS SYSTEMS HYBRID ROTARY UPS SYSTEMS DIESEL ROTARY UPS SYSTEMS STATIC UPS SYSTEMS STATIC TRANSFER SWITCHES KINETIC ENERGY STORAGE AIRCRAFT GROUND POWER SYSTEMS FREQUENCY CONVERTERS NAVAL POWER SUPPLIES SYSTEM INTEGRATION



A Langley Holdings Company

Piller Australia Pty. Ltd. 2/3 Salisbury Road, Castle Hill, New South Wales 2154, Australia T: +61 2 9894 1888 E: australia@piller.com

Piller France SAS 1 Avenue du Président Pompidou, CS 70073 – BAT A, F-92508 Rueil-Malmaison Cedex, France T: +33 1 47 21 22 55 E: france@piller.com

Piller Germany GmbH & Co. KG Abgunst 24, 37520 Osterode, Germany T: +49 5522 311 0 E: germany@piller.com

Additional Piller offices in:

Piller Italia S.r.I. Centro Direzionale Colleoni, Palazzo Pegaso 3, Viale Colleoni 25, 20041, Agrate Brianza (MB), Italy T: +39 039 689 2735 E: italia@piller.com

Piller Iberica S.L.U. Paseo de la Habana, 202 Bis Bj, E-28036 Madrid, Spain T: +34 91 345 86 58 E: spain@piller.com

Endurance Power Protection Pvt Ltd DCT 603, 6th Floor, DLF City Court, Sikanderpur, MG Road, Gurgaon, Haryana-122001, India T: +91 12442 90262 E: india@piller.com



Piller Power Singapore Pte. Ltd. 25 International Business Park, #01-65/66 German Centre, Singapore 609916 T: +65 6562 9100 E: asiapac@piller.com

Piller UK Ltd. Westgate, Phoenix Way, Cirencester, Gloucestershire, GL7 1RY, United Kingdom T: +44 1285 657 721 E: uk@piller.com

Piller USA Inc. 45 Turner Drive, Middletown, New York 10941-2047, USA T: +1 800 597 6937 E: usa@piller.com

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Piller Aviation (GB) 09 2015/Issue 1. Due to a policy of continued improvement, we reserve the right to change any specification without prior notice. ERRORS & OMISSIONS EXCEPTED. Printed on a Manroland R700 press.