





Performance three-phase power protection with high adaptability to meet the unique requirements of medium to large data centers, industry, buildings, and mission-critical environments

- Flexible and very adaptable
- Advanced electrical features
- Parallel capable up to eight units
- High efficiency
- Output synchronization to external source
- High availability architectures component
- Efficiency booster mode (EBM) on parallel installations
- ECO-mode on both single units and parallel installations
- Smart Power Test (SPoT) feature

# Features and benefits

## Power efficiency for business continuity

The Schneider Electric™ Galaxy™ 7000 UPS provides secured power solutions for medium to large data centers, industry, buildings, and mission-critical environments. The Galaxy 7000 is flexible and adaptable through its robust IGBT rectifier/inverter design with all types of real-world loads (inductive, capacitive with no derating of active power). This transformerless UPS system maximizes the system efficiency up to 94.5%, keeping valuable operational costs low (energy savings) while providing the highest power quality to mission-critical loads. Higher gains can also be made thanks to the ECO-mode feature, with up to 99% efficiency, available on both parallel and single units. The SPoT feature eliminates the need for a load bank, which provides significant savings during both installation and operation of the UPS. This feature can operate in two different modes on both single and parallel systems.

Galaxy 7000 includes features and options that continue to solve customer needs, including flexibility to grow as power requirements expand. These include the N+1 parallel/redundant modules with several choices, including isolated redundant, integrated parallel, and centralized static switch, making the Galaxy 7000 a leader with high-availability architectures for mission-critical environments. Easy installation and maintenance are the bases of the core design for this UPS, with only front electrical connections and fully serviceable components. Galaxy 7000 includes additional UPS solutions such as: bus synchronization boxes, IP32 enclosures, back-feed protection, frequency conversion capabilities, and flexible and extended battery solutions including li-ion, VRLA, NiCad, external matching maintenance bypass cabinets, and paralleling gear. The user-friendly graphical display includes multiple language options, and the included network-based power management card supports SNMP. Galaxy 7000 available services include start-up, preventive maintenance, fast response time, and comprehensive service packages designed for hassle-free system maintenance.

# Galaxy 7000

#### Availability

- · Sized for harsh environments
- · Easy to upgrade
- Flexible

#### Installation and serviceability

- · Front access design
- Easy to install
- · Easy integration into electrical networks
- · Smart Power Test feature

# Low total cost of ownership

- Power factor corrected input
- Up to 94.5% efficiency in double conversion mode
- Up to 99% efficiency with Eco-mode
- Efficiency Booster Mode on parallel installations

#### Options

- · Battery cabinets
- · System bypass cabinet
- · Centralized static switch cabinet
- Centralized static switch cabinet maintenance bypass
- SKID
- · Communications cards
- · Advanced power management software
- · Top entry cabinet
- · Li-ion battery solutions
- Backfeed

#### Typical applications

- Data centers
- · Financial institutions
- Industrial
- · Healthcare
- · Petrochemical
- Utility

# An innovative solution to make life simple

The Galaxy 7000 is easy to choose. It can operate at different frequencies and voltages, i.e., 50/60 Hz and 380 – 440 V. It also displays all information in 19 languages.

## Compatible with all load types

- Output power factor up to 1, in line with the latest generation of IT applications
- No derating for leading power factors
- High short-circuit and overload capacities for motor loads

## Compatible with all battery types

- Lead-acid batteries (vented, sealed)
- Ni-Cad
- · Li-on batteries

## Compatible with all backup time

 The high-power charger rapidly charges batteries for backup times up to four hours

#### Harmonic free rectifier

No additional harmonic filtering is required

#### Easy integration into electrical networks

Schneider Electric, a leader in harmonic management, has built a true IGBT rectifier into the Galaxy 7000. Upstream THDI is less than 5% and the input power factor is greater than 0.99.

- Less reactive power
- Fewer harmonics injected upstream
- Savings in network component ratings such as circuit breakers, cables, etc.
- Fully compatible with generator sets a 400 kVA UPS only requires a 440 kVA generator set
- Features a soft start capability

The Galaxy 7000 is easy to install. Phase sequence detection prevents start-up if the phase order is incorrect.

- Small footprint
- No need for rear or side access all connections are made through the front
- Integration of all switches requiring connection
- Ready for all system earthing arrangements

The Galaxy 7000 is easy to operate. Any screen may be selected as the standard display. For example, if output measurements are a critical parameter, select the output measurement screen as the default display.

#### Locally

 The Galaxy 7000 intuitive user interface provides clear, relevant information for easy operation.
 With its 5,000 time-stamped events, statistical analysis, and energy flow pictograms, system management could not be simpler.

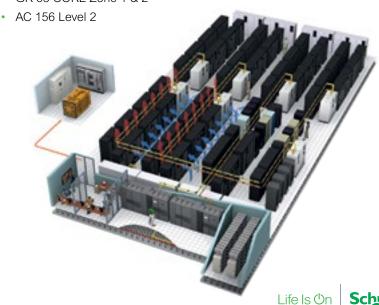
#### Remotely

- The Galaxy 7000 provides valuable information to supervision systems on:
  - The UPS and its environment
  - Controlled shutdown of operating systems
- A number of different communication protocols are available for remote operation:
  - Ethernet 10/100 Mbps with HTTPS encryption for browser and NMS supervision
  - J-Bus/Modbus for BMS systems
  - Modem for teleservice
  - Simple programmable current loop contacts

## Seismic compliant

The Galaxy 7000 has been tested for seismic compliancy using a specific anchoring system engineered by Schneider Electric. This allows the option to be compliant to the following worldwide recognized standards:

- EEE 693 High Level
- GR 63 CORE Zone 1 & 2



# Efficient product: power availability

## Sized for harsh environments

## Robust electrical performance

The sizing and quality of power components result in unsurpassed output performance:

- High fault-clearing capabilities
- High load crest factor > 3:1
- Excellent voltage stability, even for stepped load switching or unbalanced loads
- Designed for any type of load (from industrial to IT)
- No derating, even for loads with a leading power factor
- Benefits
  - High fault-clearing capacity for better discrimination in the electrical network
  - Compatibility with all types of loads, including computer loads and loads with high crest factors

## Clean, stable output waveform

The digitally controlled IGBTs and high technology output filter provide a very clean, stable output voltage waveform with less than 2% total harmonic distortion (THDU), even for:

- Stepped load switching
- Unbalanced loads
- Benefits
  - Optimum supply for loads
  - Increased life expectancy for the protected equipment

## Easy to upgrade

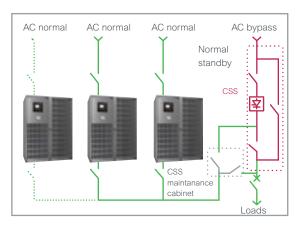
# Power and redundancy upgrades

- Power requirements can change over time
- Galaxy 7000 output can be multiplied by a factor of eight. Redundancy can also be added or upgraded as needed, e.g., 2N, N+1 or N+2.

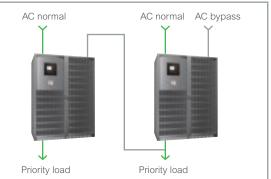
# Flexible architecture

High availability results not only from UPS reliability, but also from innovative and resilient architectures providing:

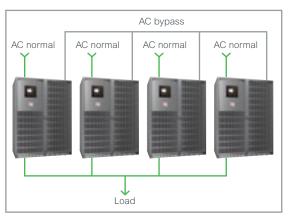
- Source redundancy
- Power-distribution redundancy



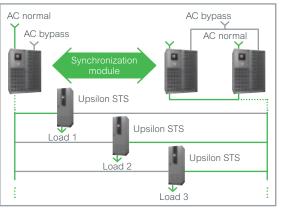
Parallel connection for increased power with a centralized static switch (CSS) unit and up to eight UPS units, including the optional CSS bypass, which enables maintenance of the CSS while continuing to support the load



Live standby redundancy



Distributed parallel connection for increased power and redundancy



Distribution redundancy with the static transfer switch (Upsilon STS)



# Flexible architectures: Meet the unique needs of your site

# Centralized static switch cabinet (CSS or SSC)

- High power up to 4000 kVA/6000 A
- Connection through busbars (Schneider Electric Canalis busway)
- Mechanical bypass included for systems up to 2000 kVA (available on demand above 2000 kVA)
- · Supports integration in your existing switchgear

## Coupling cabinet

- Add a UPS in a parallel installation without switching to bypass
- · Perform maintenance or testing of UPSs while still supplying the load

#### Backfeed

- Fully integrated backfeed option: Fully compliant with IEC 62040-1
- Dry contact backfeed option: Requires customer adaptation to comply with IEC 62040-1



# Use power efficiently

# Efficiency booster mode available on parallel installation

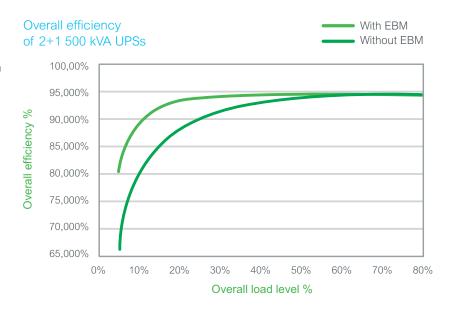
The innovative and highly anticipated EBM function helps to maintain highest global efficiency in a parallel system without any compromise on the global availability of the system.

- Benefits
  - Improve system efficiency by an average of 2%
  - Reduce electricity consumption and cooling of the UPS room
  - Manage your energy

# Up to 94.5% efficiency means significant savings

The innovative technology built into the Galaxy 7000, including digital electronics for better and faster regulation, an IGBT rectifier, and transformerless design, results in high efficiency.

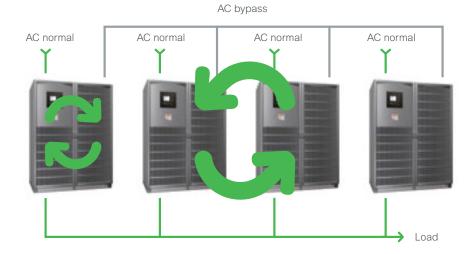
- Benefits
  - Energy savings to cut costs
  - Reduced air conditioning and ventilation in the UPS room



# Smart Power Test (SPoT) feature

This advanced feature creates significant savings during overall system installation. By removing the need for a load bank, additional breakers and switchgears are not necessary.

- · Benefits
  - Installation can be tested at any load level and at any power factor
  - SPoT can be used on both single and parallel systems





# Reducing environmental impact for sustainable development

# Beyond international environmental regulations

The data center and critical power industry must commit to environmental issues. Schneider Electric systematically attempts to exceed current and future requirements imposed by standards. That includes:

- ISO 14001 certification of sites and R&D
- Eco-design based on ISO 14040 &14060 standards and eco-production, a true commitment to sustainable development
- Taking the environmental issue into account at each stage of the product's life

## Design

Reducing the number of parts improves reliability and reduces impact on the environment. The Galaxy 7000 design team used advanced digital electronics to achieve savings:

- Fewer electronic boards
- Software updates via downloading instead of changing boards

## End-of-life recycling

- · End of product life:
  - Safety instructions
  - List of parts containing regulated substances and their position in the UPS

## Raw materials

Thanks to its compact size and low weight, the Galaxy 7000 requires fewer raw materials and the types used are more environmentally friendly.

- Power efficient components:
  - Specific choke coils
  - Smaller output filters
- New design for a transformerless UPS:
  - More silicon, less copper
  - More powerful IGBTs



The weight of the Galaxy 7000 has been halved compared to the previous generation.

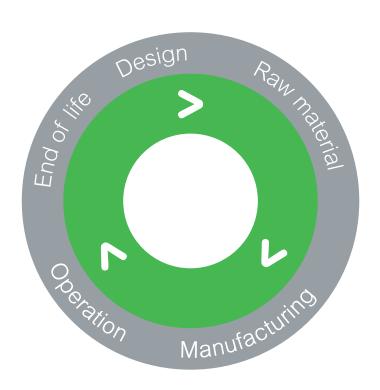
# Manufacturing according to environmental standards

Galaxy 7000 is produced in factories that comply with the ISO 14001 standard to reduce:

- Energy consumption
- Packaging waste for supplier parts
- · Amount of materials used in the process

# Energy efficiency thanks to quality power solutions

- Reduced consumption thanks to the green IGBT rectifier (low harmonics), which, in turn, reduces sizing of the electrical distribution system (breakers, cables, generator)
- High-efficiency UPS solutions to reduce heat losses:
  - Up to 94.5% efficiency in online mode
  - Improves global efficiency of a parallel system at low load level via EBM
  - Up to 99% efficiency in ECO mode



# StruxureWare for Data Centers software suite

Schneider Electric UPSs and secure power systems are a core component of any architecture designed for highly critical applications, such as data centers, industry environments, infrastructure, and buildings.

Intelligent energy management of these systems is enabled by Schneider Electric EcoStruxure™ integrated hardware and software system architecture. StruxureWare™ software applications and suites are a key element of the EcoStruxure architecture. StruxureWare software helps maximize system reliability and optimize operational efficiency.

StruxureWare for Data Centers software collects and manages real-time information about assets, resource use, and operation status throughout the data center life cycle. This data center infrastructure management software fully integrates the Galaxy 7000 UPS. With full system visibility, managers can monitor and apply this information in order to optimize data center performance to meet IT-, business-, and service-oriented goals.



# A comprehensive portfolio of services

Schneider Electric Critical Power & Cooling Services provides the highest quality services and solutions by trained and trusted professionals. Our world-class services offer a smart way to build, operate, and maintain your critical applications, ensuring the right people, in the right place, at the right time.

## Assembly and Start-Up Service

Assembly and Start-Up Service by a certified Field Service Engineer (FSE) ensures full factory warranty coverage. A Schneider Electric certified installation of your solution ensures your equipment is properly and safely configured for optimal performance. This service features a standard response time between 9 a.m. and 5 p.m., Monday through Friday, with upgrades available for off-business hours.

## Advantage plans

Flexible service packages offer hassle-free system maintenance to improve uptime at a predictable cost. These packages provide your system with the care it needs to operate most efficiently while minimizing downtime. The Advantage Plus, Prime, Ultra, and Max are full-service packages that include technical support, preventive maintenance, quick on-site response, and remote monitoring. Response time upgrades are available.

## Remote Monitoring Service

Remote Monitoring Service is an economical and easy-to-use Web-based service that lets you quickly respond to environmental or system changes. Trained technicians provide secure 24-hour monitoring of your physical infrastructure to diagnose and resolve problems before they become critical.

#### Preventive maintenance

Preventive maintenance on-site examinations of your critical systems are designed to prevent problems before they occur and keep your system running at maximum efficiency.

## On-site warranty extension service

In the event of a system issue, an FSE will arrive on site by the next business day to isolate, diagnose, and correct the problem in as little time as possible, minimizing downtime. Upgrades to even faster response times are available.

# Technical specifications

Normal AC Input	Rated power (kVA/kW)	250/250	300/300	400/400	500/500			
Normal and bypass AC inputs         Separate           Frequency         4.5 Hz to 66 Hz           Input current clistertion (THDI)         < 3 %           Input power factor         > 0.99           Phase sequence detection         Yes           Suppose SAC input           Imput votage range           (380 V, 400 V, 415 V, 440 V ) +/- 10%           Frequency           SO Hz/60 HZ +/- 10%           Power factor           Power factor     <	Normal AC input							
Fequency	Input voltage range	250 V° to 470 V, three phase						
Input current distortion (THDI)	Normal and bypass AC inputs							
Input power factor   > 0.99     Phase acquence detection   Yes     Sypass AC input     Input voltage range   (380 V, 400 V, 415 V, 440 V') +/- 10%     Frequency   50 Hz/60 HZ +/- 10%     Output     Power factor   up to 1     Phase-to-phase voltage setting   380/400/415 V/440 V, three-phase + neutral     Voltage regulation   +/- 1%     Frequency   50 or 60 Hz +/- 0.1%     Permissible overhoads   150% for 39 seconds, 125% for 10 minutes     Voltage factor (THDL)   2 < 2% Ph/Ph and Ph/N for norlinear loads     Sattery     Number of battery chains managed   Up to 3 circuit breakers     Type   Sealed lead-acid, verted, Ni-Cd, Li-ion     Overall efficiency     Double conversion   Up to 94.5%     ECO mode   Up to 99%     Environmental conditions     Operating temperature   Up to 40 °C     Humidity   Up to 1,000 m, without derating     Color   RAL 9023     P degree of protection   IP20 Standard, IP32 Optional     Parallel configurations     Inegrated parallel units   Up to 8 units     Parallel configurations     Inegrated parallel units   Up to 8 units     Parallel configurations     Inegrated parallel units   Up to 8 units     Parallel configurations     Inegrated parallel units   Up to 8 units     Depass without   Up to 1000 m, without derating     Construction and safety   IEC/EN 60940     ECC 9040-3/VF ISS 111     Design and manufacture   ISO 14001, ISO 9001, IEC/EN 60940     ECC 6000-4     EMC emissions   IEC/EC/EN 60940     ECC EMark   Ucle - CE Mark	Frequency	*						
Pase sequence detection   Yes	Input current distortion (THDI)							
Bypass AC input   Input voltage range   (380 V, 400 V, 415 V, 440 V') +/ 10%	Input power factor							
Input voltage range   (380 V, 400 V, 415 V, 440 V') +/- 10%	Phase sequence detection	Yes						
Frequency   So Hz /- 10%	Bypass AC input							
Dutput	Input voltage range	(380 V, 400 V, 415 V, 440 V°) +/- 10%						
Power factor	Frequency							
Power factor								
Voltage regulation         +/- 1%           Frequency         50 or 60 Hz +/- 0.1%           Permissible overloads         150% for 30 seconds, 125% for 10 minutes           Voltage distortion (THDU)         < 2% Ph/Ph and Ph/N for nonlinear loads           Battery         William of the physical part of particular partic	Power factor	up to 1'						
Frequency	Phase-to-phase voltage setting	-						
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Voltage distortion (THDU)  Rattery  Number of battery chains managed  Up to 3 circuit breakers  Type  Sealed lead-acid, vented, Ni-Cd, Li-ion  Overall efficiency  Double conversion  Up to 94.5%  ECO mode  Up to 99%  Environmental conditions  Operating temperature  Up to 40 °C'  Humidity  Up to 95% (noncondensing)  Operating altitude  Operating altitude  Up to 1,000 m, without derating  Color  RAL 9023  IP degree of protection  Parallel configurations  Integrated parallel units  Up to 8 units  Parallel modules with remote centralized static  Up to 8 units  Standards  Construction and safety  EC/EN 62040-1, IEC/EN 60950  Performance and topology  IEC 62040-3/VF ISS 111  Design and manufacture  EMC immunity  IEC 61000-4  EMC emissions  IEC 62040-2 C3  Approvals	Frequency	50 or 60 Hz +/- 0.1%						
Battery Number of battery chains managed Up to 3 circuit breakers Type Sealed lead-acid, vented, Ni-Cd, Li-ion  Overall efficiency  Double conversion Up to 94.5% ECC mode Up to 99%  Environmental conditions  Operating temperature Up to 40 °C' Humidity Up to 95% (noncondensing) Operating altitude Oor RAL 9023 IP degree of protection Parallel configurations Integrated parallel units Up to 8 units Up to 90% Up to 90% Up to 40 °C' Up to 40	Permissible overloads	150% for 30 seconds, 125% for 10 minutes						
Number of battery chains managed  Type  Sealed lead-acid, vented, Ni-Cd, Li-ion  Overall efficiency  Double conversion  ECO mode  Up to 99%  Environmental conditions  Operating temperature  Up to 40 °C'  Humidity  Up to 95% (noncondensing)  Operating altitude  Up to 1,000 m, without derating  Color  RAL 9023  IP degree of protection  Parallel configurations  Integrated parallel units  Parallel modules with remote centralized static bypass switch  Standards  Construction and safety  EC/EN 62040-1, IEC/EN 60950  EEC/EN 62040-1, IEC/EN 60950  EEC/EN 62040-2, IEC 60146  EMC emissions  IEC 62040-2 C3  Approvals  LCIE - CE Mark	Voltage distortion (THDU)							
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Integrated parallel units  Parallel modules with remote centralized static bypass switch  Standards  Construction and safety  Performance and topology  Performance and manufacture  EMC immunity  EMC emissions  LCIE - CE Mark	IP degree of protection	IP20 Standard, IP32 Optional						
Parallel modules with remote centralized static bypass switch  Standards  Construction and safety  Performance and topology  Performance and manufacture  EMC immunity  EMC emissions  Approvals  Up to 8 units	Parallel configurations							
bypass switch  Standards  Construction and safety  Performance and topology  Design and manufacture  EMC immunity  EMC emissions  Approvals  Btandards  IEC/EN 62040-1, IEC/EN 60950  IEC 62040-3/VFI SS 111  IEC 62040-3/VFI SS 111  IEC 60146  IEC 61000-4  IEC 62040-2 C3  LCIE - CE Mark	Integrated parallel units	Up to 8 units						
Construction and safety         IEC/EN 62040-1, IEC/EN 60950           Performance and topology         IEC 62040-3/VFI SS 111           Design and manufacture         ISO 14001, ISO 9001, IEC 60146           EMC immunity         IEC 61000-4           EMC emissions         IEC 62040-2 C3           Approvals         LCIE - CE Mark		Up to 8 units						
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Approvals LCIE - CE Mark	EMC immunity		IEC 61000-4					
	EMC emissions		IEC 620	)40-2 C3				
Seismic compliancy <sup>4</sup> IEEE 693 High - Level 2 AC156 - Zone 1 & 2 GR63CORE	Approvals		LCIE - (	CE Mark				
	Seismic compliancy <sup>4</sup>		IEEE 693 High - Level 2 AC156 - Zone 1 & 2 GR63CORE					

UPS dimensions (depth 855 mm, height 1,900 mm)						
Rated power (kVA)	250	300	400	500		
Width (without battery, in mm)	1,412	1,412	1,412	1,812		
Weight (in kg)	990	990	1,140	1,500		

<sup>&#</sup>x27;Conditions applied; 'Depending on load level; '8 hours max., 35°C continuous; 'Available as an option; 'Input voltage window +6%/-10%





# Schneider Electric

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