Secure Power Solution
Product Guide – North America
2012 - 2013
Schneider Electric: your Secure Power Solutions’ trusted advisor

Why use a Secure Power Solution?

Problems relating to the quality and availability of electrical power are more and more crucial due to the key role of communications and electronics in many critical applications.

In sensitive industrial sectors such as Marine and Offshore, Airports and Transportation, Healthcare and Pharmaceutical… any lack of electrical power can engender serious danger and put human life at risk.

Secure powered systems are now an integral part of the value chain to meet growing needs for high-quality and high-availability power.

They are the best guarantee for:
- Your operational service continuity
- Your productivity
- The quality of your products and services
- Your competitiveness
- Your site security

Nothing will stop your operations.

With an unrivaled range of adaptable or specific systems and customizable solutions backed up by global services and a worldwide project capability, Schneider Electric is the natural and best-in-class partner for customers in key industry sectors, infrastructure and buildings.

APC by Schneider Electric and GUTOR solutions combined with fully engineered cooling systems offer you 3 key benefits including:
- Availability
  - Whatever your constraints and objectives
  - Wherever your building, infrastructure or industry is located
- Adaptability
  - Our systems are planned and built to meet your requirements
  - With highly adaptable and customizable solutions to the standards required by your industry sector or environment
- Performance
  - Offering the best combination of efficiency, reliability, energy savings and reduced operating costs

What can Schneider Electric do for you?

- Adaptable and/or modular solutions with the lowest total cost of ownership over time
- A complete electrical distribution architecture designed to maximize uptime
- Energy efficiency and maintenance optimization to save up to 30% on operating costs
- Service teams to help improve your performance throughout your complete life cycle
- Integrated security to ensure peace of mind
- Environmentally friendly design and implementation of global secure power solutions
- Customized services for mission-critical applications that can be implemented at any stage in your life cycle

Our expertise is right there for you:
- Pre-sales
- Project management
- Customization facility
- Test laboratory
- Services

Green, the color of sustainable quality

For Schneider Electric, “Go Green” means implementing integrated energy management solutions in industry, infrastructure and buildings.

The greener, the better
- Increased efficiency, quality and performance
- Enhanced safety for people, systems and equipment
- Energy savings and operating cost reductions
Secure Power System offer

An unrivaled range of products

An extensive catalog of options and extensions

An outstanding architectural design and implementation capability

Meeting your specific individual requirements

Schneider Electric’s unrivaled range: from “off-the-shelf” products to sophisticated solutions with specific features and architectural implementation.

Schneider Electric’s unique “Engineered-To-Order” approach: experts working for you to analyze your present and future needs and to define the adaptation and customization required for products as well as any specific upgradable architecture needs.

From “off-the-shelf” products to sophisticated customized solutions!

UPS

Wide, pre-defined combination of UPS and accessories + options. Reinforced by tailored products to meet specific mechanical or environmental constraints.

Single-phase UPS

Smart-UPS™
0.75 to 5 kVA / p. 9

Smart-UPS On-line™
1 to 20 kVA / p. 9

Symmetra
2 to 16 kVA / p. 9

Power quality products

MGE Epsilon STS
Static Transfer Switch
200 to 600 kVA / p. 23

Three-phase UPS

MGE Galaxy 3500 3:3
10 to 40 kVA / p. 11

MGE Galaxy 4000 3:3
40 to 75 kVA / p. 11

MGE Galaxy 5000 3:3
40 to 130 kVA / p. 12

MGE Galaxy PW 3:3
150 to 225 kVA / p. 12

MGE ESP 7000 3:3
300 to 550 kVA / p. 13

MGE ESP 8000 3:3
555 to 1100 kVA / p. 13

Symmetra MW
400 to 1600 kVA / p. 13

Power quality products

MGE Epsilon STS
Static Transfer Switch
200 to 600 kVA / p. 23

Symmetra PX - Data Center
10 to 500 kW / p. 15

Smart-UPS On-line Marine
1 to 6 kVA / p. 17

MGE Galaxy 5000 Marine 3:3
20 to 120 kVA / p. 17

Industrial Control Panel Mount UPS 500 VA / p. 23

Application specific

Developed for different standards and industries (such as Marine, Data center, Wind farm, ...).

Symmetra MW
400 to 1600 kVA / p. 13

MGE Galaxy 3500 3:3
10 to 40 kVA / p. 11

MGE Galaxy 4000 3:3
40 to 75 kVA / p. 11

MGE Galaxy 5000 3:3
40 to 130 kVA / p. 12

MGE Galaxy PW 3:3
150 to 225 kVA / p. 12

MGE ESP 7000 3:3
300 to 550 kVA / p. 13

MGE ESP 8000 3:3
555 to 1100 kVA / p. 13

Symmetra MW
400 to 1600 kVA / p. 13

Fully customized solutions

Engineered to order for industry sectors such as oil and gas, power-generation mining.

GUTOR MXP modular UPS and MDC rectifier
48 to 220 VDC / p. 19

GUTOR Mini Inverter
48 to 220 VDC / p. 19

GUTOR MDD DC-DC Converter
24 to 220 VDC / p. 19

GUTOR PXK 3:1
5 to 160 kVA / p. 20

GUTOR PXK 3:3
5 to 160 kVA / p. 20

GUTOR PEW 3:1
5 to 200 kVA / p. 20

GUTOR PEW 3:3
5 to 200 kVA / p. 20

GUTOR PW 3:3
10 to 220 kVA / p. 20

GUTOR SDC rectifier
5 to 200 kW / p. 21

GUTOR Inverter WxW 3:1
5 to 200 kW / p. 21

GUTOR Inverter WxW 3:3
10 to 220 kVA / p. 21

GUTOR SDC rectifier
5 to 200 kW / p. 21

GUTOR Inverter WxW 3:1
5 to 200 kW / p. 21

GUTOR Inverter WxW 3:3
10 to 220 kVA / p. 21

Global electrical architecture

Involving architectural solutions and services capabilities.

Schneider Electric can provide you with specific pre-qualified power architectures including UPS with a vast range of options, accessories and critical components.

Your specific needs can also be addressed by a “turnkey” architecture designed by Schneider Electric to encompass your entire secure electrical distribution requirements.
Meeting 100% of your specific requirements

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Schneider Electric has the unique capability of meeting 100% of your needs and objectives thanks to an extensive catalog of single-phase and three-phase scalable products - with a wide performance range - which comply with the certification and standards requirements of your industry.

In the Healthcare sector, Schneider Electric systems are fully compliant with relevant electrical standards such as IEC 60364-7-710, NFC 15 211, NF EN 61557-8.

www.schneider-electric.com

SecurePower System offering
Adaptable products
APC by Schneider Electric

Single-phase UPS

Standard offering - providing great value

The extensive standard single-phase, Smart UPS of APC by Schneider Electric family provides great value to customers with demanding power environments, with features that include:

- Very wide input voltage range
- Extremely precise output voltage regulation
- Frequency regulation
- Internal bypass
- Input power factor correction

PowerChute Business Edition software provides UPS management, safe system shutdown and innovative energy management capabilities.

Adapted Solutions are designed around standard products to ensure the highest quality and reliability.

Adapted Solutions can take many forms.

- Product adaptation: standard products can be re-engineered to meet a specific standard or an application with special needs.
- Environmental adaptation: provides an easy-to-install turnkey solution fitting a specific environment. These solutions typically combine single-phase UPS units along with associated batteries, service bypass panel and specific AC distribution.

Single-phase Multiple options
Total reliability

A single-phase Uninterruptible Power Supply (UPS) enables decentralized protection. A single-phase UPS is installed close to the critical equipment, thereby improving the power quality. These systems are easily integrated into the installation, as they come in various forms (tower, rack) and can be simply connected to network/loads by an outlet.

Our customers demand versatile and highly reliable products developed for different conditions. APC by Schneider Electric designs and provides the widest range of standard single-phase products as well as adapted single-phase products.

Solutions based on standard products, designed to meet specific local application needs
Three-phase UPS

Products with built-in modularity, flexibility and centralized protection

Three-phase UPS solutions allow for centralized protection, which improves the TCO (Total Cost of Ownership) through lower costs of installation and maintenance.

Core offer

Our Three-phase UPS Range offers state-of-the-art technology that increases availability, flexibility and performance.

Availability: integrated maintenance bypass, redundant function (redundant communication card) parallel UPS, conformity with industry standards.

Adaptability: scalable power through parallel capacity.

Performance: low-input harmonics and high-input power factor correction and high efficiency.

Many options are available

Adapted Solutions take account of:

Mechanical UPS modifications: impact of specific environment (dust, water, rodents…) and other requirements (RAL, top/bottom entries, lock...).

Environmental adaptation. Batteries with long autonomy, low voltage distribution panel, coupling panel...

UPS products APC by Schneider Electric

Three-phase UPS

APC by Schneider Electric designs and provides the widest range of standard and adaptable three-phase products. The adapted products are designed using a project-by-project approach called engineering-to-order.
Three-phase UPS

- **Power ratings**: 408 V (208 & 600 V with transformer) 208-600 V 208, 480, 600 V +/- 0.5%
- **Input rating**: 480 V (208 & 600 V with transformer) 208-600 V - - 480 V 3-phase + N + G
- **Communication**: RS232, RS485, network SNMP, dry contacts
- **Battery**: Valve-regulated lead acid, vented lead-acid, nickel cadmium
- **Input power factor**: Unity
- **Dimension without battery**: HxWxD: 76 x 28 x 33 in
- **Weight**: 301 lbs

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**APPLICATIONS**
- Mission-Critical environments
- Medium/large data centers
- Industrial Facilities

**CHARACTERISTICS**
- **Power ratings**: 750/675, 800/720
- **watt-hours**: 121 x 82 x 39 in
- **Weight**: 14000 lbs

**OPTIONS**
- **Battery monitoring systems**: Standard offering: Flooded cells / rack
- **Input/Output transformers**: Custom input/Output transformers
- **Fault-tolerant module or system level N+1 redundancy**: Internal, 400-600 kW; external, 800-1600 kW
- **Ultra high efficiency**: (10%) at 85% load, (10%) at 45% load, 94% at 25% load

**FEATURES**
- **High availability architecture components**: Fault-tolerant module or system level N+1 redundancy
- **Universal battery support**: Modular design
- **Battery failure notification**: No battery access required
- **Internal power factor correction (input/output)**: Max. 20 kVA`/50 kVA`
- **Parallel capable output**: Horizontal/vertical stacking
- **Intuitive monitoring**: Standard offering: Flooded cells / rack
- **Battery monitoring systems**: Standard offering: Flooded cells / rack
- **Parallel capable output**: Horizontal/vertical stacking
- **Intuitive monitoring**: Standard offering: Flooded cells / rack
- **Fault-tolerant module or system level N+1 redundancy**: Internal, 400-600 kW; external, 800-1600 kW
- **Ultra high efficiency**: (10%) at 85% load, (10%) at 45% load, 94% at 25% load

**DIMENSIONS WITHOUT BATTERY**
- **Single Module-Top entry**: 125/500 kW 125 x 82 x 33 in
- **Weight**: 4750 lbs

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**APPLICATIONS**
- Mission-Critical environments
- Medium/large data centers, buildings, or facilities

**CHARACTERISTICS**
- **Power ratings**: 400, 600, 800, 1000, 1200, 1400, 1600 kW
- **Unit type**: (1100kVA) 408kW

**FEATURES**
- **High availability architecture components**: Fault-tolerant module or system level N+1 redundancy
- **Universal battery support**: Modular design
- **Battery failure notification**: No battery access required
- **Internal power factor correction (input/output)**: Max. 20 kVA`/50 kVA`
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- **Ultra high efficiency**: (10%) at 85% load, (10%) at 45% load, 94% at 25% load

**DIMENSIONS WITHOUT BATTERY**
- **Single Module-Top entry**: 125/500 kW 125 x 82 x 33 in
- **Weight**: 4750 lbs

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**APPLICATIONS**
- Mission-Critical environments
- Medium/large data centers
- Industrial Facilities

**CHARACTERISTICS**
- **Power ratings**: 300, 400, 500 kW
- **watt-hours**: 135 x 82 x 39 in
- **Weight**: 881 lbs

**OPTIONS**
- **Matching adjacent Battery cabinet**: Match adjacent Battery cabinet
- **Matching adjacent Empty Battery cabinet**: Match adjacent Empty Battery cabinet
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**FEATURES**
- **High availability architecture components**: Fault-tolerant module or system level N+1 redundancy
- **Universal battery support**: Modular design
- **Battery failure notification**: No battery access required
- **Internal power factor correction (input/output)**: Max. 20 kVA`/50 kVA`
- **Parallel capable output**: Horizontal/vertical stacking
- **Intuitive monitoring**: Standard offering: Flooded cells / rack
- **Battery monitoring systems**: Standard offering: Flooded cells / rack
- **Parallel capable output**: Horizontal/vertical stacking
- **Intuitive monitoring**: Standard offering: Flooded cells / rack
- **Fault-tolerant module or system level N+1 redundancy**: Internal, 400-600 kW; external, 800-1600 kW
- **Ultra high efficiency**: (10%) at 85% load, (10%) at 45% load, 94% at 25% load

**DIMENSIONS WITHOUT BATTERY**
- **Single Module-Top entry**: 125/500 kW 125 x 82 x 33 in
- **Weight**: 4750 lbs

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**APPLICATIONS**
- Mission-Critical environments
- Medium/large data centers
- Industrial Facilities

**CHARACTERISTICS**
- **Power ratings**: 330, 450, 500 kW
- **watt-hours**: 80 x 216 x 42 in
- **Weight**: 1600 lbs

**OPTIONS**
- **Matching adjacent Battery cabinet**: Match adjacent Battery cabinet
- **Matching adjacent Empty Battery cabinet**: Match adjacent Empty Battery cabinet
- **Matching adjacent Empty cabinet**: Match adjacent Empty cabinet
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**FEATURES**
- **High availability architecture components**: Fault-tolerant module or system level N+1 redundancy
- **Universal battery support**: Modular design
- **Battery failure notification**: No battery access required
- **Internal power factor correction (input/output)**: Max. 20 kVA`/50 kVA`
- **Parallel capable output**: Horizontal/vertical stacking
- **Intuitive monitoring**: Standard offering: Flooded cells / rack
- **Battery monitoring systems**: Standard offering: Flooded cells / rack
- **Parallel capable output**: Horizontal/vertical stacking
- **Intuitive monitoring**: Standard offering: Flooded cells / rack
- **Fault-tolerant module or system level N+1 redundancy**: Internal, 400-600 kW; external, 800-1600 kW
- **Ultra high efficiency**: (10%) at 85% load, (10%) at 45% load, 94% at 25% load

**DIMENSIONS WITHOUT BATTERY**
- **Single Module-Top entry**: 125/500 kW 125 x 82 x 33 in
- **Weight**: 4750 lbs

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**APPLICATIONS**
- Mission-Critical environments
- Medium/large data centers
- Industrial Facilities

**CHARACTERISTICS**
- **Power ratings**: 800 kVA
- **watt-hours**: 44.75 x 82 x 39 in
- **Weight**: 156 lbs

**OPTIONS**
- **Matching adjacent Battery cabinet**: Match adjacent Battery cabinet
- **Matching adjacent Empty Battery cabinet**: Match adjacent Empty Battery cabinet
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**FEATURES**
- **High availability architecture components**: Fault-tolerant module or system level N+1 redundancy
- **Universal battery support**: Modular design
- **Battery failure notification**: No battery access required
- **Internal power factor correction (input/output)**: Max. 20 kVA`/50 kVA`
- **Parallel capable output**: Horizontal/vertical stacking
- **Intuitive monitoring**: Standard offering: Flooded cells / rack
- **Battery monitoring systems**: Standard offering: Flooded cells / rack
- **Parallel capable output**: Horizontal/vertical stacking
- **Intuitive monitoring**: Standard offering: Flooded cells / rack
- **Fault-tolerant module or system level N+1 redundancy**: Internal, 400-600 kW; external, 800-1600 kW
- **Ultra high efficiency**: (10%) at 85% load, (10%) at 45% load, 94% at 25% load

**DIMENSIONS WITHOUT BATTERY**
- **Single Module-Top entry**: 125/500 kW 125 x 82 x 33 in
- **Weight**: 4750 lbs

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**APPLICATIONS**
- Mission-Critical environments
- Medium/large data centers
- Industrial Facilities

**CHARACTERISTICS**
- **Power ratings**: 600 kVA
- **watt-hours**: 121 x 82 x 39 in
- **Weight**: 1380 lbs

**OPTIONS**
- **Matching adjacent Battery cabinet**: Match adjacent Battery cabinet
- **Matching adjacent Empty Battery cabinet**: Match adjacent Empty Battery cabinet
- **Matching adjacent Empty cabinet**: Match adjacent Empty cabinet
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**FEATURES**
- **High availability architecture components**: Fault-tolerant module or system level N+1 redundancy
- **Universal battery support**: Modular design
- **Battery failure notification**: No battery access required
- **Internal power factor correction (input/output)**: Max. 20 kVA`/50 kVA`
- **Parallel capable output**: Horizontal/vertical stacking
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- **Fault-tolerant module or system level N+1 redundancy**: Internal, 400-600 kW; external, 800-1600 kW
- **Ultra high efficiency**: (10%) at 85% load, (10%) at 45% load, 94% at 25% load

**DIMENSIONS WITHOUT BATTERY**
- **Single Module-Top entry**: 125/500 kW 125 x 82 x 33 in
- **Weight**: 4750 lbs
Application specific APC by Schneider Electric

Single and three-phase UPS

Specific designs to comply with your specific application needs

Certain industries have distinctive mission-critical requirements, as well as industry-specific standards they must adhere to. To serve these markets, APC by Schneider Electric has created its specific line of products, designed to fully meet your unique requirements.

In demanding environments, specific features make all the difference...

Our extensive ability to adapt our products to specific needs enables us to ensure 100% compliance with the certification and standards requirements for target markets.

We have developed specific systems for various markets like marine/offshore, wind turbines, data centers/infrastructure and applications such as emergency lighting.

Symmetra PX is the core of the InfraStruXure solution. InfraStruXure™ provides scalable and adaptable data center IT room architecture.
Symmetra PX 100 kW
10/20/30/40/50/60/70/80/90/100 kW

APPLIcATIONS
> Small/medium data centers
> High-density zones of large data centers

CHARACTERISTICS
Output power factor: 0.99
Input power factor: 0.99

SPECIFICATIONS
Power ratings:
- 100 kW
- 200 kW
- 300 kW
- 400 kW
- 500 kW
- 600 kW
- 800 kW
- 1000 kW

Output power:
- 100 kW
- 200 kW
- 300 kW
- 400 kW
- 500 kW
- 600 kW
- 800 kW
- 1000 kW

Battery capacity:
- Valve-regulated lead acid

Weight and dimensions:
- 100 kW: 78.7 x 47.2 x 42.1 inches (200 x 120 x 107 cm)
- 200 kW: 205 x 70.9 x 42.1 inches (520 x 180 x 107 cm)
- 300 kW: 205 x 70.9 x 42.1 inches (520 x 180 x 107 cm)
- 400 kW: 205 x 70.9 x 42.1 inches (520 x 180 x 107 cm)
- 500 kW: 205 x 70.9 x 42.1 inches (520 x 180 x 107 cm)
- 600 kW: 205 x 70.9 x 42.1 inches (520 x 180 x 107 cm)
- 800 kW: 205 x 70.9 x 42.1 inches (520 x 180 x 107 cm)
- 1000 kW: 205 x 70.9 x 42.1 inches (520 x 180 x 107 cm)

Marine

Input voltage range (V):
- 240V (460V in 3 phases) + N + G

Output voltage (V):
- 208 V

APPLIcationS
> Installing in large data centers
> Distributed systems

CHARACTERISTICS
Power Capacity:
- 100 kVA
- 200 kVA
- 300 kVA
- 400 kVA
- 500 kVA
- 600 kVA
- 800 kVA
- 1000 kVA

Output Voltage Regulation:
- ±30V/100Hz

Output Frequency:
- 50/60Hz

Features:
- Transformerless 208 V

Options:
- Fault-tolerant N+1 design
- Parallel capability

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- 100 kVA
- 200 kVA
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Output Voltage Regulation:
- ±30V/100Hz

Output Frequency:
- 50/60Hz

Features:
- Transformerless 208 V

Options:
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- 500 kW: 205 x 70.9 x 42.1 inches (520 x 180 x 107 cm)
- 600 kW: 205 x 70.9 x 42.1 inches (520 x 180 x 107 cm)
- 800 kW: 205 x 70.9 x 42.1 inches (520 x 180 x 107 cm)
- 1000 kW: 205 x 70.9 x 42.1 inches (520 x 180 x 107 cm)
Gutor by Schneider Electric solutions are designed, built and maintained to ensure outstanding performance even in the most extreme conditions: high humidity, extreme temperature variations, vibration, earthquake zones, deserts…

Many different customizations are available, including:
- Mechanical modification: color, IP up to 54, bus bar and size
- UPS environment: LV distribution panel, coupling cabinet, all types of batteries
- UPS performance: special sizing for both inverter and rectifier, various input, output and DC bus voltages
- Architecture combining AC UPS and DC (rectifier)

Customized documentation and system testing upon request...

**AC and DC System**

Engineered for unique requirements

The GUTOR philosophy is to treat every customer order as a dedicated project. GUTOR can supply an unrivaled degree of flexibility, with every system engineered to meet individual needs. The Gutor offer includes a range of UPS System inverters, rectifiers, battery chargers, AC and DC modular platforms. Gutor systems are built to last, with a design lifetime of more than 20 years.

In-depth expertise for extreme applications and conditions

Gutor by Schneider Electric solutions are designed, built and maintained to ensure outstanding performance even in the most extreme conditions: high humidity, extreme temperature variations, vibration, earthquake zones, deserts…

<table>
<thead>
<tr>
<th>Voltage</th>
<th>48V</th>
<th>110V</th>
<th>120V</th>
<th>220V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>40.8–67.5 VDC</td>
<td>91.8–145 VDC</td>
<td>91.8–145 VDC</td>
<td>183.6–270 VDC</td>
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<tr>
<td>Current (per module)</td>
<td>41.6 A @ 48 VDC</td>
<td>18.4 A @ 108 VDC</td>
<td>15.9 A @ 125 VDC</td>
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<tr>
<td>Efficiency</td>
<td>&gt; 90%</td>
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<td></td>
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</table>

<table>
<thead>
<tr>
<th>Voltage</th>
<th>230 V AC</th>
</tr>
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<tbody>
<tr>
<td>Tolerance</td>
<td>± 20%</td>
</tr>
<tr>
<td>Adjustable range</td>
<td>200–242 V DC</td>
</tr>
<tr>
<td>Current (per module)</td>
<td>9.8 A @ cos Φ 0.8</td>
</tr>
<tr>
<td>Efficiency</td>
<td>&gt; 85%</td>
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<tr>
<td>Input</td>
<td>18–20</td>
</tr>
<tr>
<td>Current (per module)</td>
<td>20.7 A @ 110 VDC</td>
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<tr>
<td>Efficiency</td>
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</tr>
<tr>
<td>Type</td>
<td>GUTOR PXP AC UPS 1000 single-phase output</td>
</tr>
<tr>
<td>----------------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>220 / 230 / 240V (others on request)</td>
</tr>
<tr>
<td>Tolerance (static)</td>
<td>± 2%</td>
</tr>
<tr>
<td>Efficiency</td>
<td>≤ 0.01%</td>
</tr>
<tr>
<td>Frequency accuracy</td>
<td>≤ 0.03%</td>
</tr>
<tr>
<td>Overload Inverter</td>
<td>150% / 10 min, 125% / 10 min</td>
</tr>
<tr>
<td>Overload bypass</td>
<td>1000% / 100 ms, 950% / 1 min, 125% / 10 min</td>
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</tr>
<tr>
<td><strong>Modbus</strong></td>
<td>Modbus TCP/IP, IEC 61850 (others on request)</td>
</tr>
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<td><strong>Output</strong></td>
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Critical applications for the power supply require availability and quality. Grant high availability of energy by redundant power supply and enhanced distribution:

- Guarantee the redundancy of the distribution line, effective up to the vicinity of the protected equipments
- Ensure and prevent the fault propagation to all the loads

Improve quality of energy with the control and selective neutralization of harmonics:

- Avoid nuisance tripping of circuit-breakers
- Reduce premature aging of equipment

Increase power availability and quality

Additional systems are a must

Additional systems further enhance the level of availability and quality of the requisite systems (water, air, electricity) within your complex infrastructure installations. These critical components are grouped into three families: STS (Static Transfer Switch), Synchronization Modules and AccuSine.

Synchronization modules for high-availability redundant installations:
- Suitable for all types of power sources
- Increased availability of the installation
- Ease of use and configuration

Increased power quality and availability with best-in-class power protection solutions

**Upsilon Static transfer switches for true power supply redundancy and enhanced distribution**

- Serviceability
- Increased Availability
- Manageability

**MGE Epsilon STS**

200/400/600 kVA

**Applications**

- Industrial applications
- Data Centers
- Telecommunication

**Characteristics**

- Power ratings: 200, 400, 600 A
- Front display: Communication
- Nominal voltage: 208, 220, 240, 400, 480, 575, 600 VAC (+/- 10% adj. up to +/- 15%)
- Compensated harmonic currents
- Efficiency (linear load and PF=0.8): 0.99
- Warranty: 1 year

**Features**

- Minimum space requirements
- Independent control boards, dual cooling systems and power supplies
- Text and menu display display modes of operation, system parameters and alarms
- Allows isolation of a source for maintenance, without interrupting power to the protected loads
- Small footprint

**Options**

- Communication: Network Management Card, JBus/Modbus card (supplied as standard), Status information card (supplied as standard)
- Open Frame version
- PDU distribution unit (30 A circuit-breakers incorporated in the H x 1000 cell, up to 100 A)
- Connections at the top of the unit

**Dimensions**

- HxWxD: 30 x 72 x 25 in
- Weight: 900 lbs
- HxWxD: 30 x 72 x 33 in
- Weight: 1370 lbs

**Industrial Control Panel mount UPS**

500 VA

**Applications**

- Manufacturing Equipment
- Material and Packaging Handling
- Automation Industry
- Oil and gas

**Characteristics**

- Power: 500 VA / 325W
- Extension: Battery Pack
- Management and control cards: SmartSlot – optional network management, modbus, relay I/O
- Serial current: USB, UPS Status
- Input connection: Hardwired (3-wire, H-N-G)
- Nominal input Voltage: 120 V 120 V 230 V 230 V
- Output type: Hardwired
- Oil
- Frequency: 50/60 Hz
- Nominal output Voltage: 120 V 120 V 230 V 230 V

**Physical Characteristics**

- Panel mount: 5.84 x 14.24 x 7.72 in / 18 lbs

**Benefits**

- APC SmartSlot
- LED Status Indicators
- Audible Alarms
- User-Replaceable Batteries
- Temperature Compensated Battery Charging
- Automatic Self Test
Energy management

“StruxureWare™ software is a unique platform of applications and suites that gives you visibility into energy and other resource use across your organization. Control rising energy costs; meet reporting obligations; keep stakeholders informed and engaged. Get customized, timely information that eliminates departmental silos and conflict. And, when you deploy StruxureWare™ software within EcoStruxure™ integrated system architecture, you’ll realize significant savings on capital and operational expenses.”

Solution suitable for several applications

**HARDWARE PRODUCT**
Each Schneider Electric UPS and cooling unit is equipped with internal slots to accommodate several types of communication: dry contact, RS485, Ethernet (web server and e-mail notification) and remote monitoring.

**StruxureWare Data Center Expert** is easy to use and deploy with a user-friendly interface to monitor, manage, and control the hundreds or thousands of devices a company might have from a wide range of manufacturers. These devices include equipment that provides power, cooling, security, and environmental monitoring.

**StruxureWare Building Operation** ensures that buildings are energy efficient and effectively managed. It provides integrated monitoring, control and management of energy, lighting, HVAC and other building systems. StruxureWare Building Operation is powerful, scalable and easy to use system that delivers real performance.

**StruxureWare Power Monitoring Expert** is designed with the right user workflows, user context, and “out-of-the-box” functionality required monitoring and analysing the entire data center electrical distribution system: Medium Voltage (MV), Low Voltage (LV), and the IT Floor. This expert tool is specifically built to meet the needs of data center facility operators, technicians, & engineers. StruxureWare Power Monitoring Expert supports management level, business process tools, by natively integrating with StruxureWare Data Center Operation and by supporting industry standard data exchange technologies.

**Network Management cards**

- Web server and e-mail notification
- Network Shutdown
- InfraStruxure Central compatible
- SNMPv1/SNMPv3
- IPv4/IPv6
- Alarm, event and data logs
- Event log stores up to 500 events
- Remote access from any computer
- Remote monitoring modem
- Modbus RS485 (AP9635 only)
- Notify up to 50 computers of the UPS, chiller and air-conditioning unit status

**What is StruxureWare software ?**

Why StruxureWare ?
In a word: Software
What is it ?
In a few more words: It is Schneider Electric’s platform of integrated software applications and suites that help our customers in every segment and across all geographies to maximize their business performance while conserving their resources.

Useful materials
StruxureWare software unifies powerful and innovative software applications from «shop floor to top floor» across 3 levels to maximize efficiency.

Software: 3 Levels and 7 Functions

- **Enterprise**
  - “Conserve our enterprise resource”

- **Operation**
  - “Optimize our operation and assets”

- **Control**
  - “Control our facilities processes”

Sustainability
- Energy Resource Planning
- Asset Management

Business
- Business Operation
- Business Process

Security
- Power availability
Cooling Solutions

Precision air conditioning units

Cooling: an extensive high-performance range

With its unrivaled extensive range of cooling units Schneider Electric provides the capability to integrate high-precision equipment specifically adapted to keep your critical applications running whatever the environmental conditions.

Energy saving and Performance

To provide you with the most effective solution, innovative cooling systems offer you first and foremost:
- Integrated “Free-cooling” for significant reductions in energy consumption
- Variable Speed Drive compressors for continuous regulation of cooling capacity
- Tandem technology for compressors in order to optimize part-load efficiency
- Highly efficient refrigerants to optimize the cooling circuit
- Indirect Air Economization provides huge energy savings for minimizing the value Power Utilization Effectiveness (PUE)

Perfect connectivity for your global architecture

All the cooling units can be utilized to achieve an overall architectural solution thanks to their ease of interconnection Modules. The microprocessor controls “talk” to each other in order to provide a global solution for cooling, to be connected simply and directly to the most important Building Management Systems.

Uniflair Precision Air Conditioning Units

<table>
<thead>
<tr>
<th>Series</th>
<th>Uniflair LE Chiller Water</th>
<th>Uniflair LE Direct Expansion (DX)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling Capacity (kW)</td>
<td>23 - 130</td>
<td>15 - 100</td>
</tr>
<tr>
<td>Heat of Rejection Type</td>
<td>Chilled Water</td>
<td>Direct Expansion</td>
</tr>
<tr>
<td>Direct Expansion</td>
<td>Small / Medium / Large</td>
<td>Small / Medium / Large</td>
</tr>
<tr>
<td>Power Supply (V/Ph/Hz)</td>
<td>208-230 / 3 / 60 and 460 / 3 / 60</td>
<td></td>
</tr>
<tr>
<td>Air Flow Configuration</td>
<td>Downflow - Upflow</td>
<td></td>
</tr>
<tr>
<td>IT Airflow (CMF)</td>
<td>3,650 - 17,300</td>
<td>3,500 - 12,500</td>
</tr>
<tr>
<td>Ventilation</td>
<td>Electronically Commutated (EC)</td>
<td></td>
</tr>
<tr>
<td>Installation</td>
<td>Indoor</td>
<td></td>
</tr>
</tbody>
</table>
Customer-specific global electrical architecture by Schneider Electric

We plan the solution for your specific...

Environment, business sector, productivity, business continuity, application... lead to different requirements in terms of power, management and protection of electrical power supplies.

The idea of systems and solutions with a specific architecture presupposes an in-depth study of your present and future requirements in order to define a solution combining:

- An installation designed to meet the power rating, degree of criticality and current operational or functional process requirements
- Recommendations regarding potential upgrades to be included in the design

That’s why Schneider Electric has created organizations capable of supporting you in analyzing, defining and implementing the global architecture for your power systems.

2 different levels of architecture

Secure Power architecture

The expertise of Schneider Electric’s Project Design teams, the various levels of adaptability characteristic of the APC by Schneider Electric systems and the customization capabilities of the GUTOR by Schneider Electric solutions enable us to meet every kind of power protection requirement to offer you a fully compliant solution in terms of performance, operating costs, maintenance and scalability.

This architecture is based on:

- UPS, rectifier and their associated accessories (Backup feed, Battery, transformer...)
- Distribution panel
- Critical components (Static transfer switch, active filter, flywheel and synchronization module)

Pre-qualified electrical distribution architecture integrating secure power solutions

Schneider Electric is able to provide you with specific, pre-qualified power architectures for many different industries: Healthcare, Water and Waste treatment, Offshore connection...

These pre-qualified solutions are designed to:

- Ensure Availability
- Monitor energy and therefore Opex reduction
- Comply with standards or regulations
- Manage risks
Service excellence

A key value for Schneider Electric

Schneider Electric Critical Power and Cooling Service (CPCS) is committed to providing solutions that dramatically simplify the process of designing, deploying, and operating the world’s most predictable and efficient infrastructures.

Our world-class services offer a smart way to protect your equipment, ensuring that your system is always operating at peak performance, thereby prolonging its life span.

Perhaps the best reason to choose Schneider Electric CPCS as your service provider, however, is the convenience of a total solution - systems, services and software available from a single source. This includes access to fully tested factory-certified parts, engineering revisions and firmware upgrades.

Services at every stage

Installation Services
A Schneider Electric-certified installation and commissioning of your solution ensures your equipment is properly and safely configured for optimal performance and reliability.

Maintenance Services
Schneider Electric offers a comprehensive services portfolio designed to ensure your mission-critical applications receive the proper care and maintenance they need to operate at optimal levels – at all times. Maintenance services include Preventive Maintenance Service Plans and response time upgrades where available.

Remote Monitoring Service
RMS is a 24/7 monitoring service that acts as a primary or secondary support function. Trained technicians will monitor the health status of the physical infrastructure to help diagnose, notify, and resolve problems before they become critical.

Battery Services
Battery service and replacement are vital components of any UPS maintenance program since one failed battery can compromise an entire system. Whether you need to replace one or all of your batteries, we can ensure they are a reliable backup.

Service Plans
Flexible service packages that 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.

<table>
<thead>
<tr>
<th>Packages (*)</th>
<th>Advantage Plus</th>
<th>Advantage Prime</th>
<th>Advantage Ultra</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual preventive maintenance visit</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Next business day on-site response</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Remote monitoring service</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Technical support</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Parts</td>
<td>Discounted rates</td>
<td>Discounted rates</td>
<td>All included</td>
</tr>
<tr>
<td>Labour and Travel</td>
<td>Standard rates</td>
<td>All included</td>
<td>All included</td>
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(*) Only valid on Smart-UPS, Galaxy, Symmetra, Epsilon and AccuSine range

And experience total peace of mind with the most comprehensive service.

Key figures
- 170-year history of service culture
- 1,200 Field Service Engineers
- 170 service centers in 100 countries
- 90 service provider partners worldwide
- 6 regional service centers
- 49 rapid deployment centers
- 100M+ combined man/hours of field service experience
To learn more about Schneider Electric solutions visit www.schneider-electric.com
Try our FREE, web-based applications to experiment with virtualization, efficiency and more at tools.apc.com

Make the most of your energy™

APC by Schneider Electric

Corporate Headquarters
32 Fairgrounds Road
02892 West Kingston, RI - USA
Tel: +1 (800) 788 2208
www.schneider-electric.com
www.apc.com
www.gutor.com