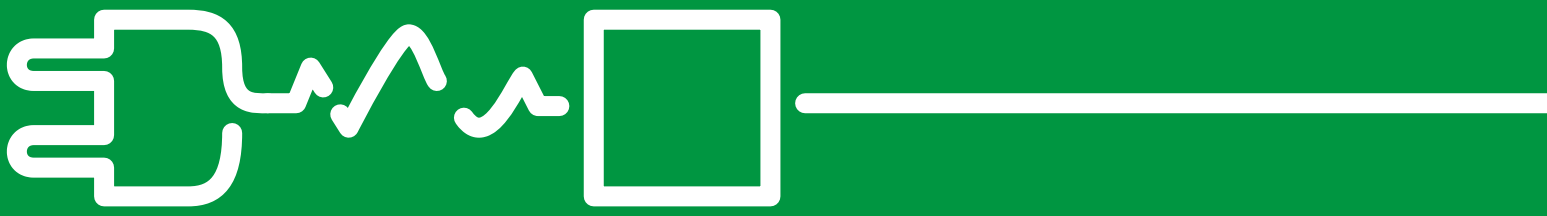
Secure Power Solution

Product Guide – North America

2012 - 2013



Schneider Electric™

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.

Schneider Electric: your Secure Power Solutions' trusted advisor

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

An unrivaled range of products

An extensive catalog of options and extensions

An outstanding architectural design and implementation capability

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

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.

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

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 500 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

Application specific

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

- 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

Fully customized solutions

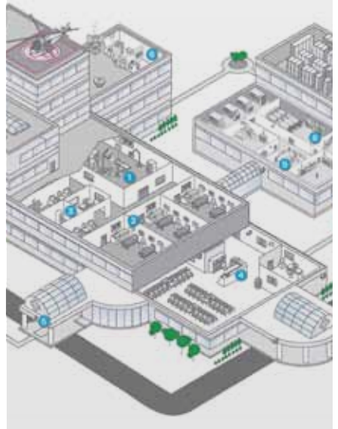
Engineered to order for industry sectors such as oil and gas, power-generation mining.

- GUTOR MXP modular UPS and MDC rectifier 24 to 220 VDC / p. 19
- GUTOR MXW Inverter 48 to 220 VDC / p. 19
- GUTOR MDD DC/DC Converter 24 to 220 VDC / p. 19
- GUTOR PXP 3:1 5 to 160 kVA / p. 20
- GUTOR PXP 3:3 5 to 160 kVA / p. 20
- GUTOR PEW 3:1 5 to 200 kVA / p. 20
- GUTOR PDW 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 kVA / p. 21
- GUTOR Inverter WxW 3:3 10 to 220 kVA / p. 21

Global electrical architecture

Involving architectural solutions and services capabilities.

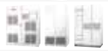
Schneider Electric can provide you with specific pre-qualified power architectures including UPS with a vast range of options, accessories and critical components.
Your specific needs can also be addressed by a “turnkey” architecture designed by Schneider Electric to encompass your entire secure electrical distribution requirements.



Meeting 100% of your specific requ irements

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.

		Solution	Power Range	Page	Food & Beverage	Water	Airports	Healthcare	Semiconductor plant	Manufacturing industry	Marine & offshore	Oil & gas	Power Generation	Wind farm	Mining	Transportation	Data centers	Automotive
Single-phase UPS		Smart-UPS	0.75 to 5 KVA	9	•	•	•	•	•	•						•	•	•
		Smart-UPS On-Line	1 to 20 KVA	9	•	•	•	•	•	•						•	•	•
		Symmetra	2 to 16 KVA	9	•	•	•	•	•	•						•	•	•
Three-phase UPS		MGE GALAXY 3500 3:3	10 to 40 KVA	11	•	•	•	•	•	•					•	•	•	•
		MGE GALAXY 4000 3:3	40 TO 75 KVA	11	•	•	•	•	•	•					•	•	•	•
		MGE GALAXY 5000 3:3	40 TO 130 KVA	12	•	•	•	•	•	•					•	•	•	•
		MGE GALAXY PW 3:3	150 TO 225 KVA	12	•	•	•	•	•	•					•	•	•	•
		MGE ESP 7000 3:3	300 TO 500 KVA	13	•	•	•	•	•	•					•	•	•	•
		MGE ESP 8000 3:3	555 TO 1100 KVA	13	•	•	•	•	•	•					•	•	•	•
		SYMMETRA MW	400 TO 1600 KVA	13	•	•	•	•	•	•					•	•	•	•
Application specific		Symmetra PX - Data Center	10 to 500 KW	15											•		•	
		Galaxy 5000 - 3-Phase UL924 UPS for Emergency Lighting		12	•	•	•	•	•	•					•	•	•	•
		Smart-UPS On-Line Marine	1 to 6 KVA	17							•					•		
		MGE Galaxy 5000 Marine 3:3	20 to 120 KVA	17							•							
		Industrial Control Panel Mount Ups	500 VA	23	•	•	•		•	•		•	•		•	•	•	•
Fully customized solutions (GUTOR)		GUTOR MXP Modular UPS and MXW inverter	48 to 220 VDC	19							O/Shore	•	•			•		
		GUTOR MDC Rectifier and MDD DC/DC converter	24 to 220 VDC	19							O/Shore	•	•			•		
		GUTOR PXP 3:1 and 3:3	5 to 160 KVA	20							O/Shore	•	•		•	•		
		GUTOR PxW AC UPS single-phase output	5 to 200 KVA	20							O/Shore	•	•					
		GUTOR PxW AC UPS three-phase output	10 to 220 KVA	20							O/Shore	•	•					
		GUTOR SDC Rectifier	5 to 200 KW	21							O/Shore	•	•					
		GUTOR Inverter WxW 1-phase output	5 to 200 KVA	21							O/Shore	•	•					
		GUTOR Inverter WxW 3-phase output	10 to 220 KVA	21							O/Shore	•	•					
Power quality products		MGE Epsilon STS – Static Transfer Switch	200 TO 600 KVA	23	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Adaptable products APC by Schneider Electric

Single-phase UPS

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.

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.

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Solutions based on standard products, designed to meet specific local application needs

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.

Smart-UPS

0.75 to 5 kVA

Single-phase output units utilizing line interactive topology, with sine wave output

Designation		SMT750	SMT1000	SMT1500	SMT2200	SMT3000	SUA5000RMT5U
Power/Runtime (VA / W / min) (Full load)		750 / 500 / 5	1000 / 700 / 6	1500 / 1000 / 7	2200 / 1980 / 9	3000 / 2700 / 5	5000 / 4000 / 9
Extension Battery Pack							
Management and control cards		SmartSlot					SmartSlot DB-9 RS-232
SmartSlot							
Management software		PowerChute Business Edition (PCBE)					PCBE
Serial comms.		RJ45 (serial) and USB					DB9 or USB
Input connection		NEMA 5-15P		NEMA 5-15P	NEMA 5-20P	NEMA L5-30P	NEMA L6-30P
Nominal Input Voltage		120V	120V	120 V	120 V	120 V	208 V
Output connections	Type	NEMA 5-15R	NEMA 5-15R	NEMA 5-15R	NEMA 5-20R / 5-15R	NEMA 5-15R / 5-20R	NEMA L6-20R / L6-30R
	Quantity	(min 6)	(min 8)	(min 8)	(8) 5-15R, (2) 5-20R		(min 2)
Nominal Output Voltage		120 V					
Physical Characteristics (HxWxD) mm / Unit weight kg							
Tower		6.34x5.43x14.29 / 29	8.62x6.73x17.28 / 42	8.62x6.73x17.28 / 53	17x7.7x21.42 / 112	17x7.7x21.42 /116	8.75x19x26 / 215

Specific rack mount versions are also available

Extended run single-phase output units utilizing line interactive topology, with sine wave output and runtime expansion capability

Designation		SMX750	SMX1000	SMX1500 RMI2U	SMX2200RMHV2U	SMX3000 RMLV2U	SMX3000 RMHV2UNC	SUA2200XL	SUA3000XL	SUM1500 RMXL2U	SUM3000 RMXL2U
Power/Runtime (VA / W / min) (Full load)		750 / 600 / 14	1000 / 800 / 8	1500 / 1200 / 6	2200 / 1980 / 10	3000 / 2700 / 6	3000 / 2700 / 6	2200 / 1850 / 10	3000 / 2700 / 5	1440 / 1425 / 12	3000 / 2850 / 3.5
Management and control cards		SmartSlot								AP9631 Fitted	
Management software		PCBE									
Serial comms.		RJ45, USB						DB9 RS-232 or USB		DB9 RS-232	
Input connection		NEMA 5-15P		NEMA L5-30P				NEMA 5-20P	NEMA 5-30P	NEMA 5-15P	NEMA 5-30P
Nominal Input Voltage		120 V									
Output connections	Type	NEMA 5-15R		NEMA 5-15R / 5-20R		NEMA 5-15R/5-20R/L5-30R		NEMA 5-15R / 5-20R		NEMA 5-15R	NEMA 5-15R/5-20R
	Quantity	(min 8)		(6) 5-15, (2) 5-20		(3)5-15 (3)5-20 (1) L5-30		(9) 5-15 (2) 5-20		(min 8)	(6) 5-15 (2) 5-20
Nominal Output Voltage		120 V									
Tower (T) / Rack (R) (Rack space)		T / R (2U)	T / R (2U)	R / T (2U)	R / T (2U)	R / T (2U)	R / T (2U)	T / R (5U)	T / R (5U)	T / R (2U)	T / R (2U)
Physical Characteristics (HxWxD) mm / Unit weight kg		17x3.5x19.3 / 48.5	17x3.5x19.3 / 50.3	3.5x17x19.3 / 54.6	3.36x17x26.26 / 84.6	3.36x17x26.26 / 84.6	3.36x17x26.26 / 84.6	17.5x8.7x19.5 / 137	17.5x8.7x19.5 / 140	3.4x17x26.7 / 103	3.4x17x26.7 / 103

Smart-UPS On-Line

1 to 20 kVA

Single and three-phase output units utilizing double conversion online topology, with sine wave output and runtime expansion capability, Rack unit width of 432mm excludes mounting brackets

Designation		SURTA1500 RMXL2U	SURT2200 RMXL2U	SURTD3K RMXL3U-TF5	SURTD5000 XLT-1TFF3	SURT6K RMXL3U-TF5	SURT8K RMXL6U-TF5	SURT10K RMXL6U-TF5	SURT15K RMXLT-1TF10K
Power/Runtime (VA / W / min) (Full load)		1500 / 1050 / 12	2200 / 1600 / 6	3000 / 2100 / 14.1	5000 / 3500 / 6.3	6000 / 4200 / 5.3	8000 / 6400 / 7.3	10000 / 8000 / 4.8	15000 / 12000 / 8.3
Management and control cards		SmartSlot, DB-9, USB			AP9631				
Management software		PowerChute Business Edition (PCBE)							
Serial comms.		DB9		RJ45	DB9, SmartSlot				
Input connection		NEMA 5-15P	NEMA 5-20P	NEMA L6-30P	NEMA L6-30P		Hard Wire (HW) (2PH+G)	Hard Wire (2PH+G)	(HW) NEMA 5-20R L6-20R / L6-30R
Nominal Input Voltage		120 V			208 V				
Output connections	Type	NEMA 5-15R		NEMA 5-20R/ L6-20R /L6-30R			HW, NEMA 5-20R / L6-20R / L6-30R		
	Quantity	(6) 5-15R		(12) 5-20 (2) L620 (1) L6-30			(1) HW,(12 5-20) (2) L6-20 (1) L6-30	(24) 5-20 (2) L6-20 (1) L6-30R	(1) HW (12) 5-20 (4) L6-20 (1) L6-30
Nominal Output Voltage		120 V		120 / 208 V					
Physical Characteristics* (HxWxD) mm / Unit weight kg		*according to physical arrangement need to be completed with references below							
Tower SURTxxxxXLI									
Rack SURTxxxxRMXLI		3.35x17x22 / 60.5	3.35x17x22 / 60.5	8.6x19x26 / 221	17x10.2x26 / 245	8.6x17x26 / 221	13.85x17x28.98 /345	17.35x17x28x98 / 440	24.48x17x30.43 / 640

Symmetra

2 to 16 kVA

APC Symmetra® LX Single-phase output units utilizing double conversion online topology, with sine wave output, runtime expansion capability and N+1 configurable

APC reference		SYH2k 6RMT	SYH4K6 RMT-P1	SYA4k8P	SYA8k8P	SYA4k 8RMP	SYA8k 8RMP	SYA8k 16P	SYA12k 16P	SYA16k 16P	SYA8k 16RMP	SYA12k 16RMP	SYA16k 16RMP
Power/Runtime (kVA / kW / min) (Full load)		2 / 1.4	4 / 2.8	4 / 3.2	8 / 6.4	4 / 3.2	8 / 6.4	8/ 6.4	12 / 9.6	16 / 12.8	8 / 6.4	12 / 9.6	16 / 12.8
		12.6	12.5	6	7.6	6	6	6	6	6	6	6	6
Management and control cards		AP9631 Fitted											
Management software		PowerChute Network Shutdown (PCNS)											
Serial comms.		DB9											
Input connection		Hard Wire NEMA L6-30P		Hard Wire (2PH+N+G)									
Nominal Input Voltage		208 V											
Output connections	Type	NEMA L6-20R / L6-30R		Hard Wire 4-wire		Hard Wire, NEMA L14-30R/L5-20R		Hard Wire			Hard Wire NEMA L14-30R / L5-20R		
	Quantity	(2) L6-20 (2) L6-30		(min 1)		(1)HW (2PH+N+G) (2) L14-30R (4) L5-20R		(1) HW (2PH+N+H)			HW (2PH+N+G) (4) L14-30R (8) L5-20R		
Nominal Output Voltage		120 V, 208 V											
Tower (T) / Rack (R) (Rack space)		R (8U)	R (10)	T		R (13U)		T			R (19U)		
Physical Characteristics (height x width) mm		14x19	17.5x19	26.42x19	26.42x19	5x18.6	22.5x18.6	36.9x19	36.9x19	36.9x19	32.9x18.6	32.9x18.6	32.9x18.6
Depth mm / weight kg		28.75 / 164	28.75 / 324	28.6 / 347	28.6 / 444	27.1 / 295	27.1 / 392	28.6 / 483	28.6 / 580	28.6 / 677	27.1 / 437	27.1 / 534	27.1 / 631

Extended runtime model also available SYA8K16IXR 8 kva / 57.4 min, SYA12K16IXR 12 kVA / 35.4 min, SYA16K16IXR 16kVA/ 24.7 min

UPS products APC by Schneider Electric

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.

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.

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.

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...

Many options are available

MGE Galaxy 3500 3:3

10/15/20/30/40 kVA

APPLICATIONS

- Commercial Buildings
- Transportation and Infrastructures
- Telecommunication
- Technical facilities
- Industrial Plants and process protection

CHARACTERISTICS

Power ratings	3:3 - 10, 15, 20, 30 kVA
Output power factor	0.8
Battery	Maintenance free, integrated–sealed lead-acid
Parallel capability	Up to 4 units for capacity or redundancy
Front display	Multi-function LCD Status and control console
Efficiency	94% at 100% linear load (+ or - .5%)
Communication	Network SNMP and environmental monitoring (AP9631), supplied with the UPS
Input ratings	208 V-220V (3PH+N+G)
Output ratings	208 V
Warranty	1 year

FEATURES

- User-replaceable air filters
- Compact form factor, Reduced footprint
- Start-up Service Included
- Dual mains input
- Hot Swappable Batteries
- Input Power Factor Correction
- Sturdy 2mm front panel
- IP 51 rating

OPTIONS

- Matching External runtime frame with batteries
- Single and parallel bypass panel - floor-mounted
- For third-party batteries
- Empty frame for third-party transformers
- Seismic brackets
- User-replaceable air filters
- Network management card (AP9635) with environmental monitoring, Modbus™, Teleservices

DIMENSIONS

UPS (Wide Tower) › **HxWxD:** 59 x 21 x 33 in
Weight: 1181 lbs maximum
UPS (Narrow Tower) › **HxWxD:** 59 x 14 x 33in
Weight: 873 lbs maximum
External runtime frame › **HxWxD:** 159x21x36.5 in
Weight: 1707 lbs maximum

MGE Galaxy 4000 3:3

30/40/60/80 kVA

APPLICATIONS

- Mission-critical environments
- Medium Data centers
- Industrial plants
- Telecommunication centers

CHARACTERISTICS

	40, 50, 60, 75 kVA
	0.8
	Adjacent, remote, open rack, VRLA, wet cell
	MIMIC LED display
	90% at 100% linear load (+ or - .5%)
	RS232, RS485, network SNMP, dry contacts
	208 V 3 phase
	208 V 3 phase
	1 year

FEATURES

- Fault tolerant circuitry
- Online double conversion topology
- Field upgradeable
- Digital power quality
- Lower input THD (<3%)
- Extended run times available
- Top or bottom entry
- Communication cards for every application

OPTIONS

- Internal or external maintenance bypass cabinet
- Matching 42 pole distribution
- Seismic brackets
- Line up and match battery cabinet and auxiliary cabinets
- 65 kAIC rating
- Communication cards for every application

DIMENSIONS

UPS › **HxWxD:** 72 x 34 x 36 in
Weight: 1234 lbs maximum
Empty battery cabinet › **HxWxD:** 72 x 34 x 34 in
Weight: 2730 lbs maximum
Empty auxiliary cabinet › **HxWxD:** 72 x 20 x 34 in
Weight: 330 lbs maximum

	MGE Galaxy 5000 3:3	MGE Galaxy PW 3:3
	40/50/60/80/100/130 kVA	150/180/200/225 kVA
APPLICATIONS		
	› Medium Data Centers › Industrial Plants › Telecommunication Centers	› Mission-Critical Environments › Data Centers › Industrial Plants › Telecommunication Centers
CHARACTERISTICS		
Power ratings	40, 50, 60, 80, 100, 130 kVA	150, 180, 200, 225 kVA
Input power factor	-	-
Parallel Capability	Up to 6 units for capacity or redundancy	Up to 4 units for capacity or redundancy
Output power factor	0.9	0.9
Battery	Integrated, adjacent, remote, open rack, VRLA	Open rack, VRLA, wet cell
Front display	Graphical display available in 18 languages	LCD with MIMIC LED display
Efficiency	Up to 94% at 100% linear load (+ or - .5%)	93% at 100% linear load (+ or - .5%)
Communication	RS232, RS485, network SNMP, dry contacts	RS232, RS485, network SNMP, dry contacts
Input rating	-	-
Input voltage	480 V (208 & 600 V with transformer)	208-600 V
Output voltage	408 V (208 & 600 V with transformer)	208-600 V
Warranty	1 Year	1 Year
FEATURES		
	› Dual input › Step Load Voltage Stabilization › Intelligent Battery Management › Bottom Entry Standard › High-Power Density Design › Input Distortion Management › Front Access Electrical Connections › Internal Maintenance Bypass › User-Friendly multi language Display with 2500 event logging › Startup services included	› 6 pulse rectifier › Low kVAR input filter › Field upgradeable › Parallel ready N+1 › Integrated maintenance bypass › Extended runtimes available › Top or bottom entry › Front-access design
OPTIONS		
	› Matching adjacent Empty Battery cabinet › Match adjacent Battery cabinet › Empty Auxillary Cabinet › Matching External bypass cabinet › Parallel System bypass cabinet › Distribution Cabinet › Back-feed protection › IP 32 pack › Fan Redundancy › External Synchro Board to be used with STS › Input/output transformers in matching cabinet › UL924 Rated battery cabinets (40, 50, 80, 100 kVA UPS)	› Critical bus synchronization › Matching 42 pole distribution › 2CB parallel cabinet with veris meter › Matching sub-main distribution › Remote alarm status panel › Line up and match battery cabinet and auxiliary cabinets › 65 kAIC rating
DIMENSIONS		
	UPS without batteries › **HxWxD:** 76 x 28 x 33 in **Weight:** 1168 lbs Empty Battery Cabinet › **HxWxD:** 75 x 28 x 32 in **Weight:** 881 lbs Empty Auxiliary Cabinet › **HxWxD:** 75 x 28 x 32 in **Weight:** 297 lbs	UPS without batteries › **HxWxD:** 72 x 40 x 33 in **Weight:** 2640 lbs Empty Battery Cabinet › **HxWxD:** 75 x 40 x 33 in **Weight:** 506 lbs Empty Auxiliary Cabinet › **HxWxD:** 75 x 40 x 33 in **Weight:** 287 lbs

	MGE ESP 7000 3:3	MGE ESP 8000 3:3	Symmetra MW 3:3
	300/400/500 kVA	555/625/750/800/1000/1100 kVA	400/600/800/1000/1200/1400/1600 kVA
APPLICATIONS			
	› Mission-critical environments › Medium/large data centers › Industrial plants	› Mission Critical Environments › Large data centers › Industrial Facilities	› Mission-critical environments › Medium/large data centers, buildings, or facilities
CHARACTERISTICS			
	300, 400, 500 kVA	555, 625, 750, 800, 1000, 1100 kVA	400, 600, 800, 1000, 1200, 1400, 1600 kVA
	-	-	Unity
	Yes	Up to 6 modules (1100kVA)	Unity (kVA=kW)
	0.9	0.9pF	Valve-regulated lead acid, vented lead-acid, nickel cadmium, lithium ion
	Lead-acid batteries (vented, sealed), NiCad	Lead-acid batteries (vented, sealed), Ni-Cad	Up to 9 UPSs for 14.4MW of capacity or redundancy
	User-friendly alphanumerical display	User friendly alphanumerical display	Touch screen LCD display
	Up to 94% (+ or - 5%)	Up to 93% (+/- 5%)	>97%
	Dry contact, network management card	Dry contact, network management card, SNMP	Touch screen LCD display
	208 V to 600 V, three phase	480 or 600 V, three phase	-
	-	-	480 V 3-phase + N + G
	208, 480, 600 V +/- 0.5%	480 or 600 V	480 V 3-phase + N + G
	1 Year	1 Year	1 Year
FEATURES			
	› Strong electrical features › Intuitive monitoring › Parallel capable output › Synchronization to external source › High availability architecture components	› Strong electrical features › Intuitive monitoring › Parallel capable output › Synchronization to external source › High availability architecture components	› Fault-tolerant module or system level N+1 redundancy › Universal battery support › Modular design › Battery failure notification › No rear access required › Unity power factor corrected (input and output) › Dual mains input, top or bottom feed › Start-up service included › InfraStruxure Central compatible › Static bypass switch (internal, 400-600 kW: external, 800-1600 kW) › Ultra-high efficiency (>97% at 85% load: 96% at 45% load; 94% at 25% load)
OPTIONS			
	› nput isolation transformer › Output distribution › External maintenance bypass › Bottom cable entry › Remote alarm status panel › Seismic anchors › Graphical user interface with network connection › Battery monitoring › Continuous duty and momentary duty › Static switch cabinets (SSC) › Critical bus synchronization	› Battery monitoring systems › Batteries cabinets (with VRLA batteries) standard offering Flooded cells / rack › Output distribution (customized) › Top cable entry cabinet › Seismic anchors › Critical bus synchronization › System static bypass switch cabinet	› Third-party battery cabinets › Maintenance bypass cabinet › UPSync™ module
DIMENSIONS		**DIMENSIONS WITHOUT BATTERY**	**DIMENSIONS WITHOUT BATTERY**
	UPS module › **HxWxD**: 69 x 82 x 39 in **Weight**: 6900 lbs Maintenance bypass cabinet › **HxWxD**: 22.75 x 82 x 39 in **Weight**: 540 lbs Transformer cabinet › **HxWxD**: 44.75 x 82 x 39 in **Weight**: 3600 lbs	Single Module-Top entry: 555/500, 625/562 › **HxWxD**: 121 x 82 x 39 in **Weight**: 12200 lbs 750/675, 800/720 › **HxWxD**: 135 x 82 x 39 in **Weight**: 14000 lbs	555/500, 625/562 › **HxWxD**: 80 x 83 x 42 in **Weight**: 4669 lbs 750/675, 800/720 › **HxWxD**: 80 x 216 x 42 in **Weight**: 14028 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.

Scalable offer for Data centers

Symmetra PX is the core of the InfraStruxure solution.
InfraStruxure™ provides scalable and adaptable data center IT room architecture.

	Symmetra PX 20 kW All-in-One	Symmetra PX 40 kW
	10/20 kVA	10/20/30/40 kVA
APPLICATIONS	› Data closets › Small data centers › High-density zones	› Small/medium data centers › High-density zones of large data centers
CHARACTERISTICS		
Power ratings	10 and 20 kW N+0 or N+1 kVA	10 to 40 kW, in 10 kW increments
Output power factor	Unity (kVA=kW)	1
Battery	Valve-regulated lead-acid	Valve-regulated lead-acid
Parallel capability	None	None
Front display	PowerView Local Display	PowerView Local Display
Efficiency	91.5%	91.5%
Communication	UPS Network Management Card (AP9617) included	UPS Network Management Card (AP9630)
Input voltage	208 V, 3-phase + N + G	208 V 3-phase + N + G
Output voltage	208 V, 3-phase + N + G or 3P + G	120/308 V 3-phase + N + G
Warranty	1 year	1 year
FEATURES	› Single-rack design › Configurable power distribution › Redundant intelligence module › Hot-swappable power modules › Hot-scalable batteries › Front access only › Maintenance bypass panel › Dual mains input, top or bottom feed › Start-up service included › Network-manageable	› Single rack design › Hot-scalable power modules › Hot-swappable batteries › Bottom feed › Start-up service included › Redundant intelligence module › Network-manageable
OPTIONS	› Extended runtime battery frames › Secondary Network Management Card (HTTP/Telnet/SNMP) › Configurable power accessories	› Extended runtime battery frame › Maintenance bypass panel › Isolation transformer › Battery breaker box › Configurable power distribution units › Secondary network management card (HTTP/telnet/SNMP)
DIMENSIONS		
HxWxD	81.5 x 23.5 x 35.5 in	82 x 36 x 24 in
Weight	665 lbs (without batteries or power modules) 1803 lbs (fully populated with batteries and power modules)	600 lbs (40 kW UPS, without batteries) 1700 lbs (40W UPS, with 6-min runtime)

Scalable offer for Data centers

Symmetra PX 100 kW

10/20/30/40/50/60/70/80/90/100 kVA

APPLICATIONS

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

CHARACTERISTICS

Power ratings	10 to 100 kW, in 10 kW increments
Output power factor	1
Battery	Valve-regulated lead acid
Parallel capability	None
Front display	PowerView Local Display
Efficiency	92.5%
Communication	UPS network management card (embedded)
Input voltage	208 V 3 phase + N + G
Output voltage	120 V/208 V 3 phase + N + G
Warranty	1 year

FEATURES

> Hot-scalable power modules
> Hot-swappable batteries (5 to 8-year life)
> Unity power factor corrected
> Dual mains input, top feed
> Start-up service included
> Hot-swappable Redundant intelligence module
> Network-manageable
> Redundant intelligence module
> Fault-tolerant N+1 design

OPTIONS

> Extended runtime battery frames
> 300 mm bottom feed frame
> Modular power distribution units with maintenance bypass and fully rated subfeed breaker (600:208 V, 480:208 V, 208:208 V, and Transformerless 208 V)

DIMENSIONS

HxWxD	79.1 x 47.2 x 42.1 in
Weight	Without batteries: 1436 lbs With 5-min runtime: 4224 lbs

Symmetra PX 250/500 kW

25-500 kVA

APPLICATIONS

> Medium/large data centers
> Mission-critical environments

CHARACTERISTICS

	One UPS: 25 kVA to 500 kVA, in 25 kVA increments. Fully populated parallel system: 25 kVA to 2 MVA, in 25 kVA increments
	1
	Valve-regulated lead acid
	Up to 4 UPSs, for capacity or redundancy
	Localized 25.4 cm touch screen display
	96%
	UPS network management card (AP9635) included
	380/400/415/480 V, 3-phase + N + G
	380/400/415/480 V, 3-phase + N + G
	1 year

FEATURES

> Hot-scalable power modules
> Hot-swappable batteries (5 to 8-year life)
> Unity power factor corrected
> Dual mains input, top or bottom feed
> Start-up service included
> Hot-swappable static bypass switch
> Redundant intelligence module
> Module or system level N+1 redundancy
> No rear access required
> Ultra-high efficiency (96% at 35% load, 95% at 25% load)
> Network-management

OPTIONS

> Third-party battery cabinets
> Extended runtime battery frames
> Battery breaker enclosure
> Maintenance bypass with distribution cabinet (MBwD)
> Battery sidecar
> Bottom feed frame
> Modular power distribution

DIMENSIONS

	Without batteries: 78.74 x 70.87 x 42.13 in 6-min runtime: 78.74 x 205 x 42.13 in
	Without batteries: 3797 lbs 6-min runtime: 18377 lbs

Marine

Smart-UPS On-Line Marine

1 to 6 kVA

	SURT 1000XLIM	SURTD 2200XLIM	SURTD 3000XLIM	SURT 6000XLIM
NORMAL AC SUPPLY INPUT				
Power Capacity	1000VA (700W)	2200VA (1540W)	3000VA (2100W)	6000VA (4200W)
Input Voltage (default 230V)	220, 230, 240V			
Input Voltage Range Full Load, t ≤ 40°C)	160V to 280V			
Input Voltage Range (Half Load, t ≤ 40°C)	100V to 280V			
Input Voltage Range (Full Load, t= 55°C)	180V to 280V			
Input Voltage Range (Half Load, t= 55°C)	112.5V to 280V			
Input mains 1 and main 2	-			
Input Frequency Range	45Hz - 65Hz			
Input Connection	IEC 320 C14	IEC 320 C14	IEC 320 C20	Hardwire (H, N,G)
Output Voltage Regulation	+/- 1%			
Output Frequency	50/60Hz +/- 3%			
Efficiency	88%	90%	91%	92%
Output Connections	(6) IEC 320 C13		(8) IEC 320 C13	
Internal bypass	(2) IEC Jumpers	(2) IEC Jumpers (8) IEC 320 C 19	(2) IEC 320 C19 (2) IEC Jumpers	(2) IEC 320 C19 (2) IEC Jumpers
BATTERIES RUNTIME				
Runtime at Full Load	14 min	21 min	14 min	5 min
Long life batteries				
Runtime with (1) External Battery Pack	70 min	80 min	57 min	21 min
Runtime with (2) External Battery Pack	130 min	144 min	103 min	40 min
External Battery Pack Part Number	SURT48 RMXLBP	SURT192 RMXLBP	SURT192 RMXLBP	SURT192 RMXLBP
Maximum Number of Battery Packs	10	10	10	10
PHYSICAL				
Rack Height	2U	3U	3U	3U
Dimensions (mm) H x W x D	432 x 85 483	432 x 130 x 660	432 x 130 x 660	432 x 130 x 660
Weight (kg)	23.0	54.5	54.5	54.5
Emergency Power Off	No	Yes	Yes	Yes
Communication Port	DB-9 RS-232	RJ-45 Serial	RJ-45 Serial	DB-9 RS-232
Marine Filter1 Part Number	SURT023M	SURT023M	SURT023M	SURT024M

(1) Marine Filter Required for DNV Compliance in applications that require DNV EMC Class B (e.g. the bridge) - (2) Note: no internal battery - uses external battery system

MGE Galaxy 5000 Marine

20 to 120 kVA

	20/16	30/24	40/32	60/48	80/64	100/80	120/96
NORMAL AC SUPPLY INPUT							
Input voltage range (V)	250V (1) to 470 3 phases						
Input mains 1 and main 2	separate or common						
Frequency	50Hz/60Hz +/- 8 Hz						
Input power factor	> 0.99						
Input current total harmonic distortion (THDI)	< 3%						
BYPASS SYSTEM INPUT							
Nominal input voltage	340V to 470V 3 phases + neutral						
Frequency	50Hz/60Hz +/- 8 Hz						
OUTPUT							
Output voltage range (V)	380V - 400V - 415V - 440V +/-3% 3 phases + neutral						
Frequency	50Hz/60Hz						
Voltage regulation	+/- 1%						
Overload	150% 1 minute, 125% 10 minutes						
Output voltage total harmonic distortion	THD(U) < 2%						
Max load crest factor	3:1						
OVERALL EFFICIENCY							
Double conversion mode	up to 94%						
Economy mode	up to 97%						
ENVIRONMENTAL							
Storage temperature	- 25°C to + 45°C						
Operating temperature	up to + 40°C (2)						
Operating altitude	1000 m						
PARALLEL-CONNECTION							
Modular	up to 6 modules						
STANDARD AND APPROVALS							
Performance and safety	IEC/EN 62040-1, IEC/EN 60950						
Performance and design	IEC/EN 62040-3						
Design and manufacturing	ISO 14001, ISO 9001, IEC 60146						
EMC immunity	IEC 61000-4-2 to 6						
EMC emissions	IEC 62040-2 C3						
Approval	TUV - LCIE - CE mark						
Marine approval	DNV-type approval			Designed according to IACS E-10 rules and classification society rules			
UPS DIMENSIONS AND WEIGHTS (depth = 850 mm height = 2260)							
UPS without batteries width (mm)	710						
Weight	500			600			
BATTERY DIMENSIONS AND WEIGHTS(depth = 850 mm height = 2260)							
10 min autonomy width (mm)	710					1010	
Weight	1000					1400	1500

(1) at 70% nominal load, (2) there is a risk of premature battery aging above 25°C, (3) 35°C for 8 hours, (4) other autonomy upon request

Fully customized solutions GUTOR by Schneider Electric

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...

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...

GUTOR MXP UPS

48/110/125/220 VDC

	48V	110V	125V	220V
Input				
Voltage*	230VAC			
Allowable tolerance	+/- 20%			
Current (per module)	12.9 AAC			
Power factor	>0.99 @ output power >50%			
Battery circuit				
Voltage	48VDC	110VDC	125VDC	220VDC
Voltage range	42–62VDC	87–150VDC	87–150VDC	170–295VDC
Current (per module)	56.0ADC	25.0ADC	22.0ADC	12.5ADC
Output				
Voltage*	230VAC			
Tolerance	+/- 0.5%			
Adjustable range	200–242VDC			
Current (per module)	9.8AAC @ cos Ψ 0.8			
Efficiency	>85%			

GUTOR MDC Rectifier

24/48/110/125/220 VDC

	24V	48V	110V	125V	220V
Input					
Voltage*	230VAC				
Allowable tolerance	+/- 20%				
Current (per module)	5.8AAC	12.9AAC			
Power factor	>0.99 @ output power >50%				
Output					
Voltage	24VDC	48VDC	110VDC	125VDC	220VDC
Voltage range	21–33VDC	42–62VDC	87–150VDC	87–150VDC	170–295VDC
Current (per module)	50.0ADC	56.0ADC	25.0ADC	22.0ADC	12.5ADC
Efficiency	>91%				

GUTOR MXW Inverter

48/110/125/220 VDC

	48V	110V	125V	220V
Input				
Voltage	40.8–67.5VDC	91.8–145VDC	91.8–145VDC	183.6–270VDC
Current (per module)	41.6ADC @ 48VDC	18.4ADC @ 108VDC	15.9ADC @ 125VDC	9.2ADC @ 216VDC
Output				
Voltage*	230VAC			
Voltage range	+/- 0.5%			
Adjustable range	200–242VDC			
Current (per module)	9.8AAC @ cos Ψ 0.8			
Efficiency	>90%			

GUTOR MDD DC/DC Converter

24/48/110/125/220 VDC

	24V	48V	110V	125V	220V
Input					
Voltage	91.7–300VDC				
Current (per module)	20.7A@110VDC / 10.3A@220VDC				
Output					
Voltage	24VDC	48VDC	110VDC	125VDC	220VDC
Voltage range	21–33VDC	42–62VDC	87–150VDC	87–150VDC	170–295VDC
Current (per module)	50.0ADC	25.0ADC	11.0ADC	9.5ADC	5.5ADC
Efficiency	>89%				

* Applicable for 50Hz and 60Hz / 1-phase and 3-phase + N

GUTOR PXP AC UPS 1000 single-phase output

5/10/15/20/30/40/50/ 60/80/100/120/140/160 kVA

Type	PXP 1000 single-phase output
Ratings	5,10, 15, 20, 30, 40, 50, 60, 80, 100, 120, 140, 160 kVA
Operating temperature	- 10 to + 40°C (max. 55°C on request)
Allowable air humidity	< 95% (non-condensing)
Noise level	55 – 65 dBA (depending on rating)
Communication	Modbus, RS-232 / 485, Ethernet
Altitude above sea level	< 1000 m without load de-rating
	Input
Rectifier	PFC technology (less than 5% distortion back to line power)
Voltage	3 x 380 / 400 / 415V (other voltages on request)
Voltage tolerance	- 10 / + 15%
Battery circuit	
Nominal voltage	400VDC
Applicable batteries	Lead-Acid, Nickel Cadmium
	Output
Voltage	220 / 230 / 240V (others on request)
Tolerance (static)	+/- 1%
Frequency accuracy	< 0.01%
Efficiency	Up to 94% (depending on configuration)
Distortion	linear load: < 2% / non-linear load: < 5%
Overload inverter	230% / 60 ms, 150% / 1 min, 125% / 10 min
Overload bypass	1000% / 100 ms, 150% / 1 min, 125% / 10 min

GUTOR PXP AC UPS 3000 three-phase output

5/10/15/20/30/40/50/ 60/80/100/120/140/160 kVA

	PXP 3000 three-phase output
	5, 10, 15, 20, 30, 40, 50, 60, 80, 100, 120, 140, 160 kVA
	- 10 to + 40°C (max. 55°C on request)
	< 95% (non-condensing)
	55 – 65 dBA (depending on rating)
	Modbus, RS-232 / 485, Ethernet
	< 1000 m without load de-rating
	Input
	PFC technology (less than 5% distortion back to line power)
	3 x 380 / 400 / 415V (other voltages on request)
	- 10 / + 15%
	400VDC
	Lead-Acid, Nickel Cadmium
	Output
	380 / 400 / 415V (others on request)
	+/- 1%
	< 0.01%
	Up to 94% (depending on configuration)
	linear load: < 2% / non-linear load: < 5%
	230% / 60 ms, 150% / 1 min, 125% / 10 min
	1000% / 100 ms, 150% / 1 min, 125% / 10 min

GUTOR SDC Rectifier

Type	Rectifier / Battery Charger	
Ratings	24-220 V	25-1200 A
Operating temperature	- 10 to + 40°C (max. 55°C on request)	
Allowable air humidity	< 95% (non-condensing)	
Noise level	55 – 65 dBA (depending on rating)	
Communication	Modbus TCP/IP,IEC 61850 (others on request)	
	Input	
Rectifier	6-pulse thyristor bridge (12-pulse on request)	
Voltage	3 x 380 / 400 / 415V (other voltages on request)	
Voltage tolerance	+ 15 / - 25%	
	Output	
Voltage	24/48/110/125/220 VDC	
DC current tolerance	+/- 2%	
Efficiency	Up to 94% (depending on configuration)	
DC overcurrent capability	150% / 2s	

GUTOR PxW AC UPS single-phase output

5 - 200 kVA

Type	PEW single-phase output
Ratings	5-200 kVA (bigger on request)
Operating temperature	- 10 to + 40°C (max. 55°C on request)
Allowable air humidity	< 95% (non-condensing)
Noise level	60 – 75 dBA (depending on rating)
Communication	Modbus TCP/IP,IEC 61850 (others on request)
	Input
Rectifier	6-pulse thyristor bridge (12-pulse on request)
Voltage	3 x 380 / 400 / 415V (other voltages on request)
Voltage tolerance	+ 10 / - 15%
Battery circuit	
Nominal voltage	110 / 125 / 220 / 400VDC
Applicable batteries	Lead-Acid, Nickel Cadmium
	Output
Voltage	220 / 230 / 240V (others on request)
Tolerance (static)	+/- 1%
Frequency accuracy	< 0.01%
Efficiency	Up to 93% (depending on configuration)
Distortion	linear load: < 2% / non-linear load: < 5%
Overload inverter	200% / 50-100 ms, 150% / 1 min, 125% /10 min
Overload bypass	1000% / 100 ms

GUTOR PxW AC UPS three-phase output

10 - 220 kVA

	PDW three-phase output
	10-200 kVA (bigger on request)
	- 10 to + 40°C (max. 55°C on request)
	< 95% (non-condensing)
	60 – 75 dBA (depending on rating)
	Modbus TCP/IP,IEC 61850 (others on request)
	Input
	6-pulse thyristor bridge (12-pulse on request)
	3 x 380 / 400 / 415V (other voltages on request)
	+ 10 / - 15%
	110 / 125 / 220 / 400VDC
	Lead-Acid, Nickel Cadmium
	Output
	380 / 400 / 415V (others on request)
	+/- 1%
	< 0.01%
	Up to 93% (depending on configuration)
	linear load: < 2% / non-linear load: < 5%
	200% / 50-100 ms, 150% / 1 min, 125% /10 min
	1000% / 100 ms

GUTOR WxW Inverter

5-200 kVA

Type	WEW single-phase output
Ratings	5-200 kVA (others on request)
Operating temperature	- 10 to + 40°C (max. 55°C on request)
Allowable air humidity	< 95% (non-condensing)
Noise level	60 – 75 dBA (depending on rating)
Communication	Modbus TCP/IP,IEC 61850 (others on request)
	Input
Voltage	110/125/220/400 VDC
Voltage tolerance	+ 20 / - 15%
	Output
Voltage	220 / 230 / 240V (others on request)
Tolerance (static)	+/- 1%
Frequency accuracy	< 0.01%
Efficiency	Up to 93% (depending on configuration)
Distortion	linear load: ≤ 3% / non-linear load: ≤ 5%
Overload inverter	200% / 50-100 ms, 150% / 1 min, 125% /10 min
Overload bypass	1000% / 100 ms

GUTOR WxW Inverter

10-220 kVA

WDW three-phase output
10-220 kVA (others on request)
- 10 to + 40°C (max. 55°C on request)
< 95% (non-condensing)
60 – 75 dBA (depending on rating)
Modbus TCP/IP,IEC 61850 (others on request)
Input
110/125/220/400 VDC
+ 20 / - 15%
Output
380 / 400 / 415V (others on request)
+/- 1%
< 0.01%
Up to 93% (depending on configuration)
linear load: ≤ 3% / non-linear load: ≤ 5%
200% / 50-100 ms, 150% / 1 min, 125% /10 min
1000% / 100 ms

Power quality products

Increase power availability and quality

Go further

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

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, 440, 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

- Minimizes space requirements
- Independent control boards, dual cooling systems and power supplies
- Test and mimic diagrams 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 (36 16 A circuit-breakers incorporated in the H = 1900 cell, up to 100 A)
- Connection at the top of the unit

DIMENSIONS

- **HxWxD:** 30 x 72 x 25 in
  Weight: Weight: 910 lbs
- **HxWxD:** 30 x 72 x 39 in
  Weight: 1375 lbs

Industrial Control Panel mount UPS

500 VA

Designation	SUA500PDR-S	SUA500PDR-H	SUA500PDRI-S	SUA500PDRI-H
Power	500 VA / 325W			
Extension Battery Pack	N/A			
Management and control cards	SmartSlot – optional network management, modbus, relay I/O			
Serial comms	DB9, UPS Status			
Input connection	HardWire (3-wire, H-N-G)			
Nominal Input Voltage	120 V	120 V	230 V	230 V
Output Type	HardWire			
Connections Quantity	(3-wire, H-N-G)			
Nominal Output Voltage	120 V	120 V	230 V	230 V
Panel mount				

PHYSICAL CHARACTERISTICS (HxWxD)

5.84 x 14.24 x 7.72 in / 18 lbs

APPLICATIONS

- Manufacturing Equipment
- Material and Packaging handling
- Automation Control
- IP-based Devices

SEGMENTS

- Food and Beverage
- Water
- Airports
- Semiconductor plant
- Manufacturing Industry
- Oil and gas
- Power Generation
- Mining
- Transportation
- Data Centers
- Automotive

BENEFITS

- Industrial Panel or DIN Rail Mountable
- Hardwired Input / Output
- Internal or External Battery Installation
- Chassis knockout
- Integrated Dry Contact I/O
- DB-9 Serial Port Communications
- APC SmartSlot
- LED Status Indicators
- Audible Alarms
- User-Replaceable Batteries
- Hot-Swappable 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 notifi cation) 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

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

	Perimetral cooling	
		
Series	UniFlair LE Chiller Water	UniFlair LE Direct Expansion (DX)
Cooling Capacity (kW)	23 - 130	15 - 100
Heat of Rejection Type	Chilled Water	Direct Expansion
Direct Expansion	Small / Medium / Large	Small / Medium / Large
Power Supply [V/ph/Hz]	208-230 / 3 / 60 and 460 / 3 / 60	
Air Flow Configuration	Downflow - Upflow	
IT Airflow (CMF)	3,650 - 17,300	3,500 – 12,600
Ventilation	Electronically Commutated (EC)	
Installation	Indoor	

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
- Schneider Electric's system solutions and architecture include the key idea of maintainability, through online monitoring, preventive maintenance programs and its global services capability.
  All of this results in maximized uptime for you and uninterrupted operations to ensure best-in-class productivity and quality of service.
- project management and support for the installation going forward.

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

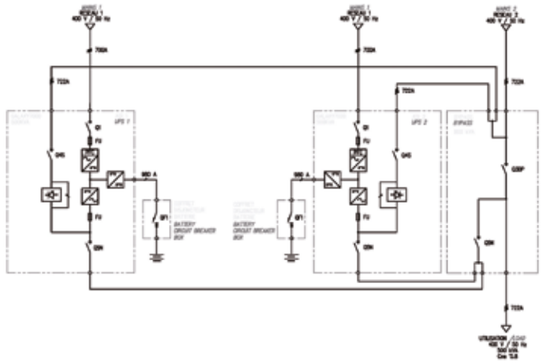
2 different levels of architecture

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 (Back feed, Battery, transformer...)
- Distribution panel
- Critical components (Static transfer switch, active filter, flywheel and synchronization module)

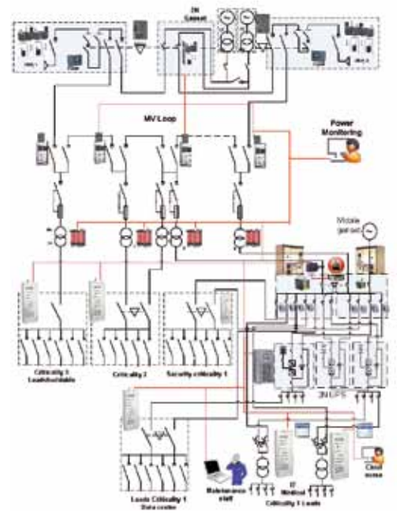


Pre-qualified electrical distribution architecture integrating secure power solutions

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

Zoom on...

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.

Packages (*)	Advantage Plus	Advantage Prime	Advantage Ultra
Annual preventive maintenance visit	√	√	√
Next Business Day on-site response[1]	√	√	√
Remote monitoring service	√	√	√
Technical support	√	√	√
Parts[2]	Discounted rates	Discounted rates	All included!
Labour and Travel	Standard rates	All included!	All included!

(1) Upgrades to an eight-hour or four-hour on-site response time and upgrate to 24/7 preventive maintenance service may be selected where available. (2) Batteries and proactive replacement of parts not included

(*) 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