

# Three- Phase Power Protection

208-480-600 V

Regions



**APC**<sup>™</sup>

by **Schneider** Electric

# Table of contents

## Products, accessories and services

Introduction .....	3
Three-Phase Power Portfolio .....	4
Three-Phase UPS Product Families .....	5
InfraStruxure™ 20kW All-In-One .....	6
Symmetra™ PX 40kW .....	7
Symmetra PX 100kW .....	8
Symmetra PX 250/500 .....	9
Symmetra Megawatt .....	10
Smart-UPS™ VT .....	11
MGE Galaxy™ 3500 .....	12
MGE Galaxy 4000 .....	13
MGE Galaxy PW .....	14
MGE Galaxy 5000 .....	15
MGE EPS 6000 .....	16
MGE EPS 7000 .....	17
MGE EPS 8000 .....	18
MGE Epsilon STS .....	19
Three-Phase Power Distribution Portfolio .....	20
Configurable Power Distribution .....	21
Modular Power Distribution .....	22
Cabinet Power Distribution .....	23
Management Options and Cards .....	24
Compatibility Matrices .....	26
Service Offers .....	28
Other Available Services .....	30

## Power you can trust

Schneider Electric™ is a world leader in power protection, solving today's energy challenges while setting the standard for quality and innovation with fully integrated solutions, enterprise-wide networks, data centers, mission-critical systems, and industrial/manufacturing processes.

Our global portfolio of world-class products and services uniquely combine to offer end-to-end critical power solutions, providing customers with the highest levels of availability, reduced total cost of ownership, and improved energy efficiency throughout the life cycle of their installations.



Providing the highest levels of availability, reduced total cost of ownership, and improved energy efficiency



# Three-Phase Power Portfolio

# Three-Phase UPS Product Families (208-600 V Regions)

## Customer applications

## Modular range

## Adaptable range

Large/  
extra-  
large data  
centers

### Modular range

#### Symmetra MW, PX 250/500

- > TCO is key (breakthrough efficiency)
- > Intrinsic redundancy
- > Highest IT solution integration (aesthetics)
- > Ideal for green-field projects or high-density zones

### Adaptable range

#### MGE Galaxy EPS 6000, EPS 7000, EPS 8000

- > First cost is critical
- > Redundancy through power architectures (parallel UPS)
- > Adaptable to any requirements (electrical, IP, etc.)
- > Fits with any existing architecture and any size data center

Small/  
medium  
data  
centers

### Modular range

#### InfraStruxure 20 kW All-In-One, Symmetra PX 40, Symmetra PX 100

- > TCO is key
  - Breakthrough efficiency
  - Speed of deployment
  - Easy growth/future proofing
- > Intrinsic redundancy
- > Best IT solution integration (aesthetics)
- > Ideal for "single room" integrated data center physical infrastructure

### Adaptable range

#### MGE Galaxy 3500, 4000, 5000, Smart- UPS VT, MGE Galaxy PW

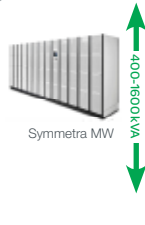
- > First cost is critical
- > Redundancy through power architectures (parallel UPS)
- > Adaptable to any requirements (electrical, IP, etc.)
- > Most likely, there is a dedicated "electrical room"

Industry  
and  
infrastructure

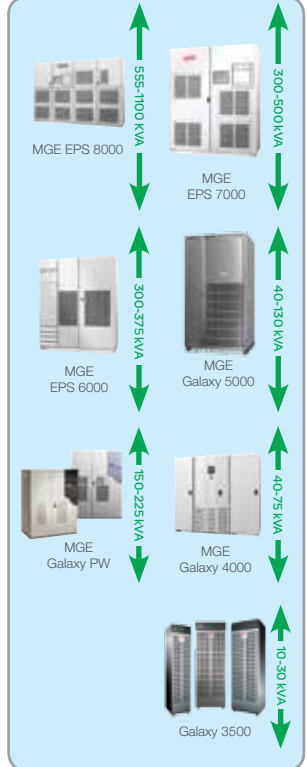
### Adaptable range

#### MGE Galaxy 3500, 4000, PW, 5000, EPS 6000, 7000, 8000

- > Flexible and adaptable to requirements
- > High electrical performance
- > Compatible with wide range of critical applications, from medical to process automation



IT  
data centers



IT data centers & industry  
and infrastructure

# InfraStruxure 20 kW (Symmetra PX 20 kW All in One)

10-20 kVA



## Applications

- > Data closets
- > Small data centers
- > High-density zones

## Characteristics

> Power ratings	10 and 20 kW N+0 or N+1
> Output power factor	Unity (kVA=kW)
> Battery	Valve-regulated lead acid
> Parallel capability	None
> Front display	PowerView local display
> Efficiency	91.5%
> Communication	UPS network management card (AP9617) included
> Input voltage	208 V 3 Phase + N + G
> Output voltage	208 V, 3 Phase + N + G or 3P + G
> Warranty	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

## Options

- > Extended runtime battery frames
- > Secondary network management card (HTTP/Telnet/SNMP)
- > Configurable power accessories

## Dimensions

> HxWxD	81.5 x 23.5 x 35.6 in
> Weight without batteries or power modules	665 lbs
> Weight fully populated with batteries and power modules	1803 lbs

# Symmetra PX 40 kW

10-40 kVA



## Applications

- > Small data centers
- > Medium data centers
- > High-density zones of large data centers

## Characteristics

> Power ratings	10 to 40 kW, in 10 kW increments
> Output power factor	1
> Battery	Valve-regulated lead acid
> Parallel capability	None
> Front display	PowerView local display
> Efficiency	91.5%
> Communication	UPS network management card (AP9630) included
> Input voltage	208 V 3-phase + N + G
> Output voltage	120/208 V 3-phase + N + G
> Warranty	1 Year

## Features

- > 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 frame
- > Maintenance bypass panel
- > Isolation transformer
- > Battery breaker box
- > Configurable power distribution units
- > Secondary network management card (HTTP/Telnet/SNMP)

## Dimensions

> HxWxD	82 x 36 x 24 in
> Weight without batteries (40 kW UPS)	600 lbs
> Weight with 6-min. runtime (40 kW UPS)	1700 lbs

# Symmetra PX 100 kW

10-100 kVA



# Symmetra PX 250/500 kW

25-500 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 (five- to eight-year life)
- > Unity power factor corrected
- > Dual mains input, top feed
- > Start-up service included
- > Hot-swappable static bypass switch
- > Redundant intelligence module
- > Network-manageable
- > 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 (100kW UPS only)	1436 lbs
> Weight with 5-min. runtime (100kW UPS only)	4224 lbs

## Applications

- > Medium/large data centers
- > Mission-critical environments

## Characteristics

> Power ratings	One UPS: 25 kVA to 500 kVA, in 25 kVA increments Fully populated parallel system: 25 kVA to 2 MVA, in 25 kVA increments
> Output power factor	1
> Battery	Valve-regulated lead acid
> Parallel capability	Up to 4 UPSs, for capacity or redundancy
> Front display	Localized 25.4 cm touch screen display
> Efficiency	96%
> Communication	UPS network management card (AP9635) included
> Input voltage	380/400/415/480 V, 3-phase + N + G
> Output voltage	380/400/415/480 V, 3-phase + N + G
> Warranty	1 Year

## Features

- > Hot-scalable power modules
- > Hot-swappable batteries (five- to eight-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-manageable

## 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, 500kW UPS

> HxWxD without batteries or MBwD	78.74 x 70.87 x 42.13 in
> HxWxD with 6-min. runtime and MBwD	78.74 x 205 x 42.13 in
> Weight without batteries or MBwD	3797 lbs
> Weight with 6-min. runtime and MBwD	18377 lbs

# Symmetra Megawatt

400 -1600 kVA



## Applications

- > Medium/large data centers, buildings, or facilities
- > Mission-critical environments

## Characteristics

> Power ratings	400 to 1600 kVA, scalable in 200kVA increments
> Input power factor	Unity
> Output power factor	Unity (kVA=kW)
> Battery	Valve-regulated lead acid, vented lead-acid, nickel cadmium, lithium ion
> Parallel capability	Up to 9 UPSs for 14.4MW of capacity or redundancy – the world's largest UPS solution
> Front display	Touch screen LCD display
> Efficiency	>97%
> Communication	Touch screen LCD display
> Input voltage	480 V 3-phase + N + G
> Output voltage	480 V 3-phase + N + G
> Warranty	1 Year

## Features

- > 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

- > Third-party battery cabinets
- > Maintenance bypass cabinet
- > UPSync™ module

## Dimensions\*

> HxWxD, MW400	80 x 83 x 42 in
> HxWxD, MW1600	80 x 216 x 42 in
> Weight, MW400	4669 lbs
> Weight, MW1600	14028 lbs

\*Dimensions do not include batteries.

# Smart-UPS VT

10/15/20/30 kVA



## Applications

- > Small data centers
- > Server rooms
- > Commercial buildings, retail and points of sale
- > Medical server rooms and laboratories
- > Government and institutions

## Characteristics

> Power ratings	10, 15, 20, 30 kVA
> Output power factor	0.8
> Battery	Integrated, maintenance-free, 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), included
> Input voltage	208 V-220 V (3PH + N + G)
> Output voltage	200 V-220 V (3PH + N + G)
> Warranty	1 Year

## Features

- > Compact form factor
- > Reduced footprint
- > Tower and rackmount
- > Hot scalable runtime – modular batteries
- > Parallel for capacity or redundancy – up to 3 units
- > Scalable architecture
- > Dual mains input
- > Step load voltage stabilization
- > Start-up service included

## Options

- > Matching external runtime frame with or without breakers
- > Single cabinet maintenance bypass floor mount with or without 42 pole distribution panel
- > Parallel maintenance bypass cabinet for up to 3 units
- > Network management card (AP9631) with environmental monitoring

## Dimensions

> UPS (wide tower) (HxWxD)	59 x 21 x 33 in Weight (1455 lbs) max
> UPS (narrow tower) (HxWxD)	59 x 14 x 33 in Weight (428 lbs) max
> Parallel maintenance bypass	59 x 14 x 33 in Weight (317 lbs) max 59 x 21 x 33 in Weight (377 lbs) max

# MGE Galaxy 3500

10/15/20/30 kVA



# MGE Galaxy 4000

40/50/60/75 kVA



## Applications

- > Commercial buildings
- > Transportation and infrastructures
- > Telecommunication centers
- > Technical facilities
- > Industrial plants & process protection

## Characteristics

> Power ratings	10, 15, 20, 30 kVA
> Output power factor	0.8
> Battery	Integrated, maintenance-free, 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), included
> Input voltage	208 V-220 V (3PH+N+G)
> Output voltage	208 V
> Warranty	1 Year

## Features

- > Compact form factor; reduced footprint
- > Dual mains input
- > Hot swappable batteries
- > Input power factor correction
- > User-replaceable air filters
- > Start-up service included
- > IP 51 rating
- > Sturdy 2mm front panel

## 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) max
> UPS (narrow tower) (HxWxD)	59 x 14 x 33 in Weight (873 lbs) max
> External runtime frame (HxWxD)	59 x 21 x 36.5 in Weight (1707 lbs) max

## Applications

- > Mission-critical environments
- > Small/medium data centers
- > Industrial plants
- > Telecommunication centers

## Characteristics

> Power ratings	40, 50, 65,75 kVA
> Output power factor	0.8
> Battery	Adjacent, remote, VRLA, wet cell
> Front display	MIMIC LED display
> Efficiency	90% at 100% linear load (+ or -5%)
> Communication	RS232, RS485, network SNMP, dry contacts
> Input ratings	208 V 3 phase
> Output ratings	208 V 3 phase
> Warranty	1 year

## Features

- > Fault tolerant circuitry
- > Online double conversion topology
- > Field upgradeable
- > Digital power quality
- > Low 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
- > Dual input

## Dimensions

> UPS (HxWxD)	72 x 34 x 36 in Weight (1234 lbs) max
> Battery cabinet (HxWxD)	72 x 34 x 34 in Weight (2730 lbs) max
> Distribution cabinet (HxWxD)	72 x 20 x 34 in Weight (330 lbs) max

# MGE Galaxy PW

150/180/200/225 kVA



# MGE Galaxy 5000

40/50/60/80/100/130 kVA



## Applications

- > Mission-critical environments
- > Industrial plants
- > Small data centers
- > Telecommunication centers

## Characteristics

> Power ratings	150, 180, 200, 225 kVA
> Parallel capability	Up to 4 units for capacity or redundancy
> Output power factor	0.9
> Battery	Open rack, VRLA, wet cell
> Front display	LCD with MIMIC LED display
> Efficiency	93% at 100% linear load (+ or - .5%)
> Communication	RS232, RS485, network SNMP, dry contacts
> Input voltage	208-600 V
> Output voltage	208-600 V
> Warranty	1 Year

## Features

- > 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

- > 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 (HxWxD)	75 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 (297 lbs)

## Applications

- > Medium data centers
- > Industrial plants
- > Telecommunication centers
- > Mission-critical environments

## Characteristics

> Power ratings	40,50,60,80,100,130 kVA
> Parallel capability	Up to 6 units for capacity or redundancy
> Output power factor	0.9
> Battery	Integrated, adjacent, remote, open rack, VRLA
> Front display	Graphical display available in 18 languages
> Efficiency	Up to 94% at 100% linear load (+ or - .5%)
> Communication	RS232, RS485, network SNMP, dry contacts
> Input voltage	480 V (208 & 600 V with transformer)
> Output voltage	480 V (208 & 600 V with transformer)
> Warranty	1 Year

## Features

- > Dual input
- > Step load voltage stabilization
- > Intelligent battery management
- > Bottom entry standard
- > Front access electrical connections
- > Input distortion management
- > Internal maintenance bypass
- > User-friendly multi-language display
- > High power density design

## Options

- > Matching adjacent empty battery cabinet
- > Match adjacent battery cabinet
- > Empty auxiliary cabinet
- > External synchronization board (to use with static transfer switch)
- > Parallel system bypass cabinet
- > Back-feed protection
- > IP32 pack
- > Fan redundancy
- > Input/output transformers in matching cabinet
- > UL924 rated battery cabinets (40-50 kVA UPS)

## Dimensions

> UPS without batteries (HxWxD)	76 x 28 x 33 in Weight 1168 lbs
> Empty battery/auxiliary cabinet (HxWxD)	75 x 28 x 32 in Weight 881 lbs
> Transformer cabinet (HxWxD)	75 x 28 x 32 in Weight 297 lbs



# MGE EPS 6000

300/375 kVA



## Applications

- > Medium/large data centers
- > Industrial plants
- > Mission Critical Environments
- > Telecommunication centers

## Characteristics

> Power ratings	300, 375 kVA
> Output Power Factor	0.8
> Battery	Lead-acid batteries (vented, sealed), NiCad
> Parallel capability	none
> Front Display	User-friendly alphanumerical display
> Efficiency	Up to 94% (+or-5%)
> Communication	Alarm relay card, network management card, industrial network management card
> Input voltage	208 V to 600 V, three phase
> Output voltage	208, 480, 600 V +/- 0.5%
> Warranty	1 Year

## Features

- > Digital Power quality inverter
- > Input filter technology
- > Solid State Disc SCR transfer Switch
- > Full output regulation over entire range of the battery

## Options

- > Battery monitoring systems
- > Batteries cabinets (with VRLA batteries) standard offering
- > System static bypass switch cabinet
- > Output distribution (customized)
- > Top cable entry cabinet
- > Seismic anchors
- > Low KVAR input filter
- > Critical bus synchronization module

## Dimensions

### Rated power 300 kVA/240 kW

Input voltage (Normal AC Input)	Module width (75 in H x 32 in D) (2)	UPS weight (without filter)
> 208	162 in	9815 lbs
> 480	113 in	8379 lbs
> 480	63.5 in	5543 lbs
> 600	162 in	9815 lbs

### Rated power 375 kVA/300 kW

Input voltage (Normal AC Input)	Module width (75 in H x 32 in D) (2)	UPS weight (without filter)
> 208	162 in	10,440 lbs
> 480	113 in	8836 lbs
> 480	63.5 in	5612 lbs
> 600	162 in	10,440 lbs

# MGE EPS 7000

300/400/500 kVA



## Applications

- > Mission Critical Environments
- > Medium/large data centers
- > Industrial plants

## Characteristics

> Power ratings	300, 400, 500 kVA
> Output power factor	0.9
> Battery	Lead-acid batteries (vented, sealed), NiCad
> Parallel capability	Yes
> Front display	User-friendly alphanumerical display
> Efficiency	up to 94% (+or-5%)
> Communication	Dry contact, network management card
> Input voltage	208 V to 600 V, three phase
> Output voltage	208, 480, 600 V +/- 0.5%
> Warranty	1 Year

## Features

- > Strong electrical features
- > Intuitive monitoring
- > Parallel capable output
- > Synchronization to external source
- > High availability architecture components

## Options

- > Input 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 module
- > Battery disconnect

## Dimensions

### Rated power (kVA/kW)

	WxHxD	Weight
> UPS module	69 x 82 x 39 in	6900 lbs
> Maintenance bypass cabinet	22.75 x 82 x 39 in	540 lbs
> Bottom entry cabinet	14 x 82 x 39 in	190 lbs
> Transformer cabinet	44.75 x 82 x 39 in	3600 lbs

## MGE EPS 8000

555/625/750/800/  
1000/1100 kVA



## MGE Epsilon STS

200/400/600 kVA



### Applications

- > Mission Critical Environments
- > Industrial Facilities
- > Large data centers

### Characteristics

> Power ratings	555, 625, 750, 800, 1000, 1100 kVA
> Output power factor	0.9pF
> Battery	Lead-acid batteries (vented, sealed), Ni-Cad
> Parallel capability	Up to 6 modules (1100kVA)
> Front display	User friendly alphanumeric display
> Efficiency	Up to 93% (+/- 5%)
> Communication	Dry contact, network management card, SNMP
> Input voltage	480 or 600 V, three phase
> Output voltage	480 or 600 V
> Warranty	1 Year

### Features

- > Strong electrical features
- > Intuitive monitoring
- > Parallel capable output
- > Synchronization to external source
- > High availability architecture components

### Options

- > Battery monitoring systems
- > Batteries cabinets (with VRLA batteries) standard offering
- > Flooded cells / racks
- > Output distribution (customized)
- > Top cable entry cabinet
- > Seismic anchors
- > Critical bus synchronization
- > System static bypass switch cabinet

### Dimensions

#### Rated power (kVA/kW)

555/500, 625/562, 750/675, 800/720, 555/500, 625/562

	WxHxD	
> Multi module	121 x 82 x 39 in	
> Maintenance bypass for single module	22 x 82 x 39 in	
> Bottom entry	36 x 82 x 39 in	
> Battery disconnect	36 x 82 x 39 in	

#### Rated power (kVA/kW)

555/500, 625/562      750/675, 800/720

> Single Module-Top entry (WxHxD)	121 x 82 x 39 in	135 x 82 x 39 in
> UPS cabinet (lbs)	12200	14000

### Applications

- > Industrial applications
- > Data centers
- > Telecommunication centers

### Characteristics

> Power ratings	200 to 600 A
> Efficiency	(linear load & PF=0.8) : 0.99
> Nominal voltage	208, 220, 240, 440, 480, 575, 600 VAC (+/- 10% adj. up to +/- 15%)
> Warranty	1 Year

### Features

- > Minimizes space requirements
- > Independent control boards, dual cooling systems and power supplies
- > Text 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)
- > 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

> Capacities (A)	200
> Dimensions DxHxW	30 x 72 x 25 in
> Weight	910 lbs

> Capacities (A)	400 & 600
> Dimensions DxHxW	30 x 72 x 39 in
> Weight	1375 lbs

## Three-Phase Power Distribution Portfolio



## Configurable Power Distribution

40/60/150 kW



### Small, medium, and large data centers

#### Modular power distribution

- > Minimal, white space footprint
- > Truly safe with hot-scalable modules
- > Toolless expansion
- > Easy integration with InfraStruxure solutions
- > Pre-configured breakers and cord-sets for ease of deployment
- > Fully compliant, global offering
- > 72 kW 5U PDU, 144 kW PDU, 266 kW PDU, 277 kW PDU

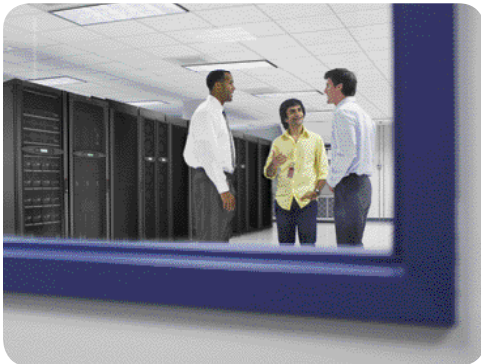
#### Configurable power distribution

- > Configured to order
- > Factory assembled for high quality
- > Easy integration with InfraStruxure solutions
- > Pre-configured cord sets
- > 40-150 kW PDU, 10U RPP

### Data centers and industrial applications

#### Cabinet power distribution

- > Customized and factory assembled for high quality
- > Customers are experienced with the form factor
- > Easily expandable using Remote Power Management Modules



### Applications

- > Small, medium, and large data centers

#### Characteristics: 40/60/150 PDU

> Full load rating	up to 150 kW
> Panel positions	150 kW PDU: 84
> Front display	PowerView local display
> Input voltage	208/480/600 V
> Output ratings	120/208 V 3-Phase
> Warranty	1 year

#### Characteristics: 10U rack power panel (RPP)

> Full load rating	up to 28.8 kVA
> Panel positions	42
> Input voltage	120/208 V 3-phase
> Output ratings	120/208 V 3-phase
> Warranty	1 Year

#### Features: 40/60/150 kW PDU

- > Top or bottom cable entry
- > Flexible configure-to-order options
- > Factory assembled and tested
- > NEMA-rated TP1 transformers
- > Aesthetic design
- > No side access required

#### Features: 10U Rack Power Panel (RPP)

- > Flexible configure-to-order options
- > Factory assembled and tested
- > Aesthetic design
- > No side access required

#### Options

- > Branch circuit monitoring
- > Shielding troughs
- > Start-up service

#### Dimensions, 150 kW PDU with transformer

> HxWxD	81 x 29 x 36 in
> Weight (unpopulated)	1500 lbs

#### Dimensions, 10U rack distribution panel in NetShelter™ VX enclosure

> HxWxD	34.5 x 23.5 x 81.5 in
> Weight (unpopulated)	600 lbs

# Modular Power Distribution

72/144/266/277 kW



## Applications

- > Small, medium, and large data centers

## Characteristics, 72 kW PDU

> Full load rating	72 kW
> Max. power distribution modules	6 (18 poles)
> Front display	PowerView local display
> Input voltage	208 V 3-phase + N + G
> Output voltage*	120/208 V
> Warranty	1 Year

## Characteristics, 144 kW/266 kW/277 kW PDU

> Full load rating	Up to 277 kW
> Max. power distribution modules	24 (72 poles)
> Front display	PowerView local display
> Input voltage	144 kW PDU: 208V 266 kW PDU: 480V 277 kW PDU: 400V
> Output voltage*	120/208 V
> Warranty	1 Year

## Features

- > Touch-safe backplane
- > Hot-scalable
- > Integrated monitoring
- > Network-enabled
- > Modbus supported
- > High-density distribution
- > No rear access required
- > Add circuits with no hotwork or shutdowns

## Options

- > Power distribution modules with locking connectors
- > Start-up service

## Dimensions: 72 kW PDU

> HxWxD	9 x 18 x 29 in
> Weight (unpopulated)	52 lbs

## Dimensions: 277 kW PDU

> HxWxD	84.84 x 29.37 x 46.49 in
> Weight (unpopulated)	380 lbs

\*Output voltage may be 1-phase or 3-phase, based on the connected Power Distribution Module

# Cabinet Power Distribution

30 to 300 kVA



## Applications

- > Small, medium, and large data centers
- > Industrial applications

## Characteristics

> Power ratings	30 to 300 kVA
> Max. panel boards	6
> Max. poles	42 per panel board (252 total)
> Front display	Front panel with switches and LED indicators
> Input voltage	120/208 single phase or 208, 480, 600VAC
> Output voltage	120/208 single phase -208 3 phase
> Warranty	1 Year

## Features

- > Integrated isolation, electronic-grade grounding, and distribution
- > No rear access required
- > 200%-rated neutral bus
- > Spacious input/output cable access
- > Top or bottom cable entry

## Options

- > Remote power management modules
- > Start-up service

## Dimensions: PMM30

> HxWxD	72.3 x 41.0 x 20.6 in
> Weight (208/120VAC, 84 poles)	675 lbs

## Dimensions: PMM300

> HxWxD	72.3 x 41.0 x 20.6 in
> Weight (480V, 84 poles)	3365 lbs

# Management Options and Cards

Each UPS is equipped with internal slots to accommodate several types of communications cards. See the compatibility matrices on the next page to determine if these cards are supported for your UPS.

## MGE Network Management Card

(66074, 66123, 66124)



- > Web server and email notification
- > Enterprise power manager for UPS monitoring
- > Network shutdown module for server protection
- > InfraStruxure Central with "mge" discovery file
- > SNMPv1/IPv4
- > Optional environmental sensor (part number 66846)
- > Alarm and event logs
- > Event log stores up to 500 events
- > Remote access from any computer
- > Notify up to 50 computers of the UPS status (up to 35 for 66123 and 66124)
- > Teleservice modem (66124 only)
- > Modbus™ RS485 (66123 only)



## High Voltage Relay Cards (Dry Contacts)

(66069)

## Modbus RTU over RS485 Card

(66061)

## Teleservice Card

(66096, 66097)

## MultiSlot Communications Card Expander

(66071)

- > 1 acquisition card (part number 66063)
- > Up to 3 communication cards (transverse format) for versatility

## UPS Network Management Card 2

(AP9630/AP9631/AP9635)



- > Web server and email notification
- > PowerChute™ network shutdown
- > InfraStruxure Central compatible
- > SNMPv1/SNMPv3
- > IPv4/IPv6
- > Temperature sensor (AP9631/AP9635 only)
- > Alarm, event, and data logs
- > Event log stores up to 1500 events
- > Remote access from any computer
- > Teleservice modem (AP9635 with select Galaxy UPSs only)
- > Modbus RS485 (AP9635 only)
- > Notify up to 50 computers of the UPS status

## SmartSlot™ Expansion Chassis

(AP9600)

## SmartSlot Triple Expansion Chassis

(AP9640BLK)

## SmartSlot Interface Expander

(AP9607)

## SmartSlot Relay I/O Card

(AP9610)

## SmartSlot Measure UPS 2

(AP9612TH)

## SmartSlot Building Management Interface Card

(AP9622)

## Compatibility Matrices for Management Options and Cards

Galaxy 3500, Smart-UPS VT, Symmetra

SmartSlot Cards	Galaxy 3500	Smart-UPS VT	InfraStruXure 20kW AIO
Expansion chassis > AP9600	x	x	x
Triple expansion chassis > AP9604BLK	x	x	x
Interface expander > AP9607	x	x	x
Relay I/O > AP9610	x	x	x
Measure-UPS2 > AP9612TH	x	x	x
Building management interface > AP9622	x	x	x
UPS NMC2 > AP9630 > AP9631	x	x	x

SmartSlot Cards	Symmetra PX 40	Symmetra PX 100	Symmetra PX 250/500
Expansion chassis > AP9600	x	x	
Triple expansion chassis > AP9604BLK	x	x	
Interface expander > AP9607	x	x	
Relay I/O > AP9610	x	x	
Measure-UPS2 > AP9612TH	x	x	
Building management interface > AP9622	x	x	
UPS NMC2 > AP9630 > AP9631	x		
UPS NMC2 > AP9635			x

Symmetra MW does not support SmartSlot accessories

## Compatibility Matrices for Management Options and Cards, cont.

EPS, Epsilon, Galaxy

SmartSlot Cards	EPS 6000, 7000, 8000	Epsilon STS	Galaxy 4000	Galaxy PW	Galaxy 5000
Modbus > 66061		x	x	x	x
Relay > 66069		x	x	x	x
Ethernet > 66074	x*	x	x	x	x
Teleservice modem > 66096		x	x	x	x
Teleservice modem > 66097	x				

\*To use the Ethernet card 66074 with the EPS 6000, 7000, or 8000, the Multislot Communications Card Expander 66071 and the acquisition card 66063 are required

# Schneider Electric Critical Power & Cooling Services (CPCS)

## World-class Services

The extensive global network of Schneider Electric Critical Power & Cooling Services field service engineers (FSEs) are trained by the people who developed the products, which results in fast and accurate diagnosis, quick time to repair, and minimal downtime. Choose CPCS as your service provider for 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 not available from third-party service providers.

### Services available at the time of product purchase:

#### One-year factory warranty

All three-phase power protection products include a one-year factory warranty, which covers repairing or replacing any defective parts and includes on-site labor and travel.

#### Installation services

Start-up service and assembly service are automatically included with some products and available for purchase with others. These services ensure proper installation and operation of your product. Start-up service performed by a certified FSE is required for full coverage under your factory warranty. It includes basic operator training.

#### On-site warranty extension

On-site warranty extensions, available in one- or two-year terms, provide next-business-day response to diagnose and repair your system. Parts, labor, and travel are all included with this service. Upgrades to a faster response time are available in many locations.

#### Comprehensive service packages

The Advantage Plus, Advantage Prime, and Advantage Ultra Plans are full-service packages that include technical support, proactive maintenance, quick on-site response when needed, and remote monitoring. Additional or upgraded services may be purchased as well. Service is performed by field service engineers who are rigorously trained and tested on universally accepted safety practices and electrical codes and our own product offerings.

#### No unexpected expenses

The Advantage Ultra Plan includes all parts, labor, and travel, eliminating the risk of unexpected charges for service. The table below lists the features included with each Advantage Plan. You can add any service described under the "Other Available Service" section to any Advantage plan. Our goal is to help you develop a customized service package that meets your business needs.



## Other Available Services

The following services may be purchased to supplement your service contract or as stand-alone services.

### Response time upgrade

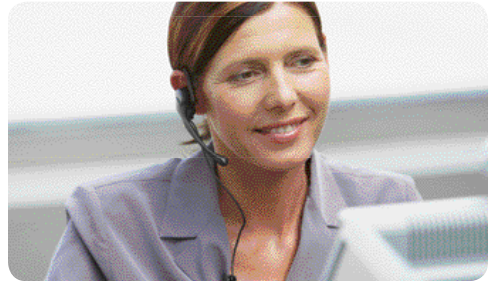
Any on-site warranty extension or Advantage Plan contract can be upgraded to an eight-hour or four-hour on-site response. Check with your service sales rep to confirm availability in your location.

### Preventive maintenance visit

This service provides a comprehensive visual, environmental, and electronic inspection of the product to ensure that components are performing to defined technical and environmental specifications. It includes all labor and travel expenses. Standard scheduling is during normal business hours with a 7X24 scheduling upgrade option available, including weekends and holidays.

### 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 that they are a reliable back-up. In addition, we can provide safe and efficient removal, shipping, and recycling of your expired batteries, adhering to all federal, state, and local environmental regulations.



### Monitoring services

Experienced remote monitoring professionals provide 24-hour monitoring of your system. As a second set of eyes, they can help you diagnose problems before they become critical, and if required, promptly dispatch a certified field service engineer on-site.

### Capacitor and fan replacement services

These services ensure proactive replacement of capacitor bank and fans in order to optimize the operation of your product. Also included is the environmentally friendly disposal of the replaced capacitors or fans. Labor and travel are included, parts are billed separately.

### Extended operator training

Provides more in-depth training than what is provided at the time of system start-up.

### Orientation and training service

Comprehensive training designed to increase your operator's knowledge of the product. It includes both classroom and hands-on training, as well as solutions management training. Contact your service sales rep to determine if it is available for your product.





To learn more about APC by Schneider Electric solutions visit [www.apc.com](http://www.apc.com)

Try our FREE, Web-based applications to experiment with virtualization, efficiency, and more at [tools.apc.com](http://tools.apc.com)

APC by Schneider Electric Corporate Headquarters  
132 Fairgrounds Road, West Kingston, RI 02892 USA



©2011 Schneider Electric. All Rights Reserved. Schneider Electric, APC, NetShelter, Smart-UPS, PowerChute, Symmetra, MGE, Galaxy, UPSync, SmartSlot, Modbus, and InfraStruxure are trademarks owned by Schneider Electric Industries SAS or its affiliated companies. All other trademarks are the property of their respective owners. Product specifications are subject to change without notice and are provided "as is" without warranty of any kind, express or implied. See [apc.com](http://apc.com) for the most up to date product specifications. 998-4233\_60Hz