

# Three-phase Power Protection

208 – 480 – 600 V

Regions



**APC**<sup>™</sup>

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



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# Three-phase Power Portfolio

## Customer applications

<p><b>Large/ extra- large data centers</b></p>	<p><u>Modular range</u></p>	<p><u>Adaptable range</u></p>
	<p><b>Symmetra MW, PX 250/500</b></p> <ul style="list-style-type: none"> <li>&gt; TCO is key (breakthrough efficiency)</li> <li>&gt; Intrinsic redundancy</li> <li>&gt; Highest IT solution integration (aesthetics)</li> <li>&gt; Ideal for green-field projects or high-density zones</li> </ul>	<p><b>MGE Galaxy EPS 6000, EPS 7000, EPS 8000</b></p> <ul style="list-style-type: none"> <li>&gt; First cost is critical</li> <li>&gt; Redundancy through power architectures (parallel UPS)</li> <li>&gt; Adaptable to any requirements (electrical, IP, etc.)</li> <li>&gt; Fits with any existing architecture and any size data center</li> </ul>
<p><b>Small/ medium data centers</b></p>	<p><u>Modular range</u></p>	<p><u>Adaptable range</u></p>
	<p><b>InfraStruxure 20 kW All-In-One, Symmetra PX 40, Symmetra PX 100</b></p> <ul style="list-style-type: none"> <li>&gt; TCO is key             <ul style="list-style-type: none"> <li>• Breakthrough efficiency</li> <li>• Speed of deployment</li> <li>• Easy growth/future proofing</li> </ul> </li> <li>&gt; Intrinsic redundancy</li> <li>&gt; Best IT solution integration (aesthetics)</li> <li>&gt; Ideal for “single room” integrated data center physical infrastructure</li> </ul>	<p><b>MGE Galaxy 3500, 4000, 5000, Smart-UPS VT, MGE Galaxy PW</b></p> <ul style="list-style-type: none"> <li>&gt; First cost is critical</li> <li>&gt; Redundancy through power architectures (parallel UPS)</li> <li>&gt; Adaptable to any requirements (electrical, IP, etc.)</li> <li>&gt; Most likely, there is a dedicated “electrical room”</li> </ul>
<p><b>Industry and infrastructure</b></p>		<p><u>Adaptable range</u></p>
		<p><b>MGE Galaxy 3500, 4000, PW, 5000, EPS 6000, 7000, 8000</b></p> <ul style="list-style-type: none"> <li>&gt; Flexible and adaptable to requirements</li> <li>&gt; High electrical performance</li> <li>&gt; Compatible with wide range of critical applications, from medical to process automation</li> </ul>

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

## Modular range



**IT data centers**

## Adaptable range



**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 lb.
> Weight fully populated with batteries and power modules	1,803 lb.

# 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
- > 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 lb.
> Weight with 6-min. runtime (40 kW UPS)	1,700 lb.

# Symmetra PX 100 kW

10 – 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 (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 (100 kW UPS only)	1,436 lb.
> Weight with 5-min. runtime (100 kW UPS only)	4,224 lb.



# Symmetra PX 250/500 kW

25 – 500 kVA



## 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	3,797 lb.
> Weight with 6-min. runtime and MBwD	18,377 lb.

# Symmetra Megawatt

400 – 1,600 kVA



## Applications

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

## Characteristics

> Power ratings	400 to 1,600 kVA, scalable in 200 kVA 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 14.4 MW 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 – 1,600 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	4,669 lb.
> Weight, MW1600	14,028 lb.

\*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	208V – 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 (1,455 lb.) max
> UPS (narrow tower) (HxWxD)	59 x 14 x 33 in. Weight (428 lb.) max
> Parallel maintenance bypass	59 x 14 x 33 in. Weight (317 lb.) max 59 x 21 x 33 in. Weight (377 lb.) max

# MGE Galaxy 3500

10/15/20/30 kVA



## Applications

- > Commercial buildings
- > Transportation and infrastructures
- > Telecommunication centers
- > Technical facilities
- > Industrial plants and 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
- > IP51 rating
- > Sturdy 2 mm 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 (1,181 lb.) max
> UPS (narrow tower) (HxWxD)	59 x 14 x 33 in. Weight (873 lb.) max
> External runtime frame (HxWxD)	59 x 21 x 36.5 in. Weight (1,707 lb.) max

# MGE Galaxy 4000

40/50/60/75 kVA



## 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 (1,234 lb.) max
> Battery cabinet (HxWxD)	72 x 34 x 34 in. Weight (2,730 lb.) max
> Distribution cabinet (HxWxD)	72 x 20 x 34 in. Weight (330 lb.) max

# MGE Galaxy PW

150/180/200/225 kVA



## Applications

- > Mission-critical environments
- > Small data centers
- > Industrial plants
- > 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 (2,640 lb.)
> Empty battery cabinet (HxWxD)	75 x 40 x 33 in. Weight (506 lb.)
> Empty auxiliary cabinet (HxWxD)	75 x 40 x 33 in. Weight (297 lb.)

# MGE Galaxy 5000

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



## 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 and 600 V with transformer)
> Output voltage	480 V (208 and 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 1,168 lb.
> Empty battery/auxiliary cabinet (HxWxD)	75 x 28 x 32 in. Weight 881 lb.
> Transformer cabinet (HxWxD)	75 x 28 x 32 in. Weight 297 lb.

# 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 alphanumeric 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, 3-phase
> Output voltage	208, 480, 600 V +/- 0.5%
> Warranty	1 Year

## Features

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

## Options

- > Battery monitoring systems
- > Output distribution (customized)
- > Batteries cabinets (with VRLA batteries) standard offering
- > Top cable entry cabinet
- > Flooded cells/racks
- > Seismic anchors
- > System static bypass switch cabinet
- > 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.	9,815 lb.
> 480	113 in.	8,379 lb.
> 480	63.5 in.	5,543 lb.
> 600	162 in.	9,815 lb.

### 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 lb.
> 480	113 in.	8,836 lb.
> 480	63.5 in.	5,612 lb.
> 600	162 in.	10,440 lb.



# 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 alphanumeric display
> Efficiency	up to 94% (+or-5%)
> Communication	Dry contact, network management card
> Input voltage	208 V to 600 V, 3-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)

300/270, 400/360, 500/450, 300/270, 400/360, 500/450

	WxHxD	Weight
> UPS module	69 x 82 x 39 in.	6,900 lb.
> Maintenance bypass cabinet	22.75 x 82 x 39 in.	540 lb.
> Bottom entry cabinet	14 x 82 x 39 in.	190 lb.
> Transformer cabinet	44.75 x 82 x 39 in.	3,600 lb.

# MGE EPS 8000

555/625/750/800/  
1,000/1,100 kVA



## Applications

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

## Characteristics

> Power ratings	555, 625, 750, 800, 1,000, 1,100 kVA
> Output power factor	0.9pF
> Battery	Lead-acid batteries (vented, sealed), Ni-Cad
> Parallel capability	Up to 6 modules (1,100 kVA)
> Front display	User friendly alphanumerical display
> Efficiency	Up to 93% (+/- 5%)
> Communication	Dry contact, network management card, SNMP
> Input voltage	480 or 600 V, 3-phase
> Output voltage	480 or 600 V
> Warranty	1 Year

## Features

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

## Options

- > Battery monitoring systems
- > Top cable entry cabinet
- > Batteries cabinets (with VRLA batteries) standard offering
- > Seismic anchors
- > Flooded cells / racks
- > Critical bus synchronization
- > Output distribution (customized)
- > 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)	12,200	14,000

# MGE Epsilon STS

200/400/600 kVA



## 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)	<b>200</b>
> Dimensions DxHxW	30 x 72 x 25 in.
> Weight	910 lb.
> Capacities (A)	<b>400 &amp; 600</b>
> Dimensions DxHxW	30 x 72 x 39 in.
> Weight	1,375 lb.

# Three-phase Power Distribution Portfolio



## 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



# Configurable Power Distribution

40/60/150 kW



## 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)	1,500 lb.

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

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

# 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: 208 V 266 kW PDU: 480 V 277 kW PDU: 400 V
> 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 lb.

## Dimensions: 277 kW PDU

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

\*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, 600 VAC
> Output voltage	120/208 V 1-phase; 208 V 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 lb.

## Dimensions: PMM300

> HxWxD	72.3 x 41.0 x 20.6 in.
> Weight (480V, 84 poles)	3,365 lb.

# 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

## StruxureWare for Data Centers Software Suite

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

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

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



# A Comprehensive Portfolio of Services

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



# A Comprehensive Portfolio of Services

## (continued)

### Assembly and Start-Up Service

Assembly and Start-Up Service by a certified Field Service Engineer (FSE) ensures full factory warranty coverage. A Schneider Electric certified installation of your solution ensures your equipment is properly and safely configured for optimal performance. This service features a standard 8-hour, 5-day response time, with upgrades available for off-business hours.

### Advantage Plans

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

### Remote Monitoring Service (RMS)

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

### Preventive Maintenance

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

### On-site Warranty Extension Service

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



# 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.

## 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.



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