

OS-210 Series

Outdoor Surveillance System IP PoE Cabinet with Integrated Power and Battery Backup



The OS-210 Series is a robust Outdoor IP PoE Cabinet designed to ensure uninterrupted power and network connectivity for mission-critical IP surveillance applications. Built with IP66-rated 304L stainless steel, the cabinet withstands harsh environmental conditions and features an integrated backup power system* (battery not included), 304 stainless steel padlockable swing handle, GPS module, and system controller. This setup ensures continued operation during AC outages, making it ideal for remote surveillance sites and infrastructure deployments.

Offering versatile DC outputs—12V, 24V, and 55V DC—the OS-210 Series can efficiently power a range of non-PoE powered devices, including industrial PoE switches. Its comprehensive mounting accessories simplifies installation and ensures secure system integration. Real-time status monitoring is made possible through unified management software that provides alerts on power status, battery status, and cabinet temperature and humidity.

For enhanced functionality, the OS-210 is best paired with AETEK DIN-Rail L2 PRO PoE Switch Series, enabling features such as Topology View, Google Map View, PoE reboot, and Cable Diagnostics via the NTS. For added protection, the SD-504 Modular PoE Surge Protector is also recommended to protect against power surges and ensure long-term system stability.

*Note: Accommodates up to 4 units of 12V/7-10Ah sealed lead-acid batteries (not included).

Features

Integrated Power and Battery Backup:

- Seamless battery backup ensures continuous power during AC power loss
- Offers 12V, 24V, and 55V DC outputs for non-PoE devices

Real-Time Monitoring via Web UI:

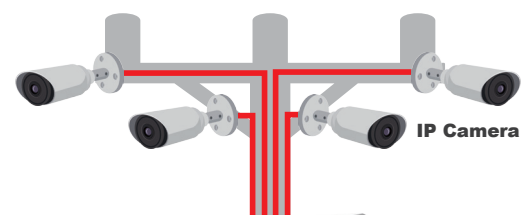
- Current power source and AC input voltage
- Battery voltage, remaining capacity, and estimated runtime
- Temperature, humidity and GPS coordinates
- Instant alerts for key events: power source change, battery low voltage, and more

Rugged and Secured Design:

- IP66-rated enclosure withstands harsh outdoor environments
- Padlockable swing handle enhances security of the cabinet

Applications

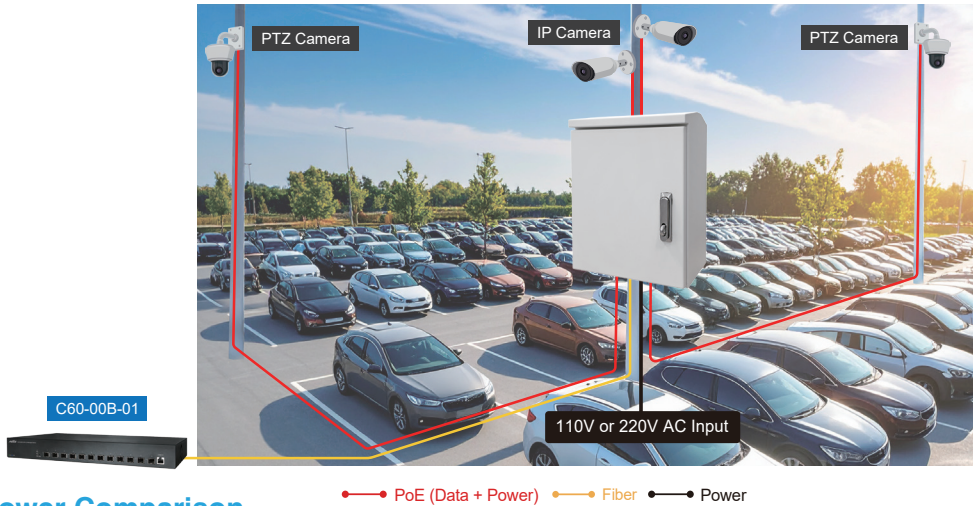
Built-in battery backup ensures continuous video recording during AC loss.



OS-210 Series
Outdoor IP PoE Cabinet with
Integrated Power and Battery Backup

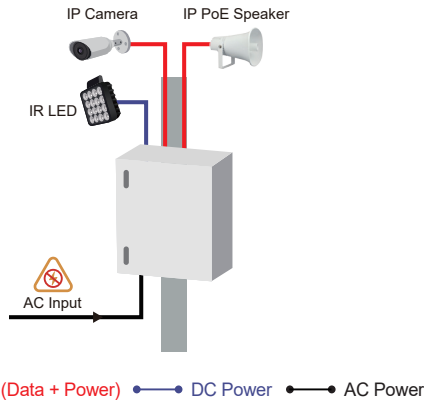
110V or 220V AC Input

— PoE (Data + Power) — Power — Fiber



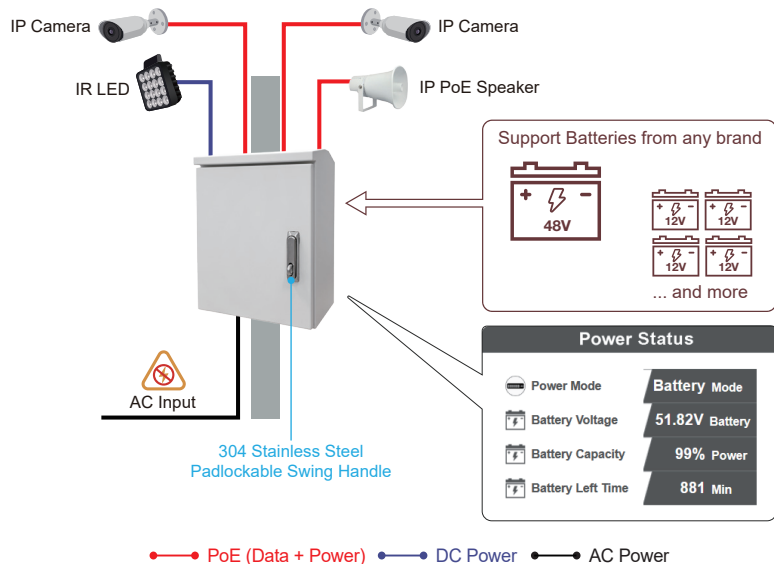
Backup Power Comparison

General Setup



- ✗ No backup power solution for outdoor installations
- ✗ Risk of network interruptions, video loss, and extended downtime during AC outages
- ✗ Requires frequent manual checks for system status and network health

All-in-One Outdoor IP PoE Cabinet with Battery Backup



- ✓ All-in-One Outdoor PoE Solution with battery backup
- ✓ Dedicated backup power and isolated power source eliminates the risk of power hijacking
- ✓ Real-time monitoring of battery health reduces the frequency of manual checks and improves performance
- ✓ High uptime

Battery Backup Calculator – OS-210 Series with Battery Backup

Battery Backup Calculator – OS-210 Series with Battery Backup				Approximate Backup Time at Full Load					
AETEK Model	Charging Current	Battery	Power Consumption	60W	120W	180W	240W	300W	360W
			Full Charge Time						
OS-210-360 with D60	1.5A	48V/7Ah Sealed Lead Acid Battery	4 hr 56 mn	3 hr 7 mn	1 hr 24 mn	46 mn	27 mn	-	-
		48V/10Ah Sealed Lead Acid Battery	7 hr 4 mn	4 hr 20 mn	2 hr 8 mn	1 hr 18 mn	51 mn	-	-
OS-210-600 with D60	3A	48V/7Ah Sealed Lead Acid Battery	2 hr 28 mn	3 hr 7 mn	1 hr 24 mn	46 mn	27 mn	15 mn	7 mn
		48V/10Ah Sealed Lead Acid Battery	3 hr 32 mn	4 hr 20 mn	2 hr 8 mn	1 hr 18 mn	51 mn	35 mn	24 mn

*Calculation is based on Yuasa NP7-12 / NP18-12, 48V 4S1P @ 25 °C

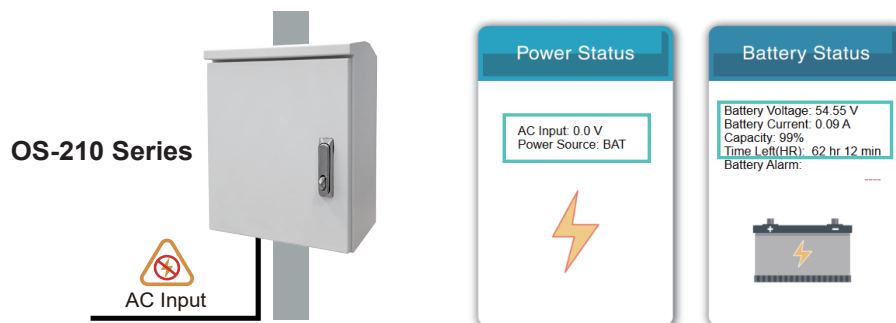


System Information

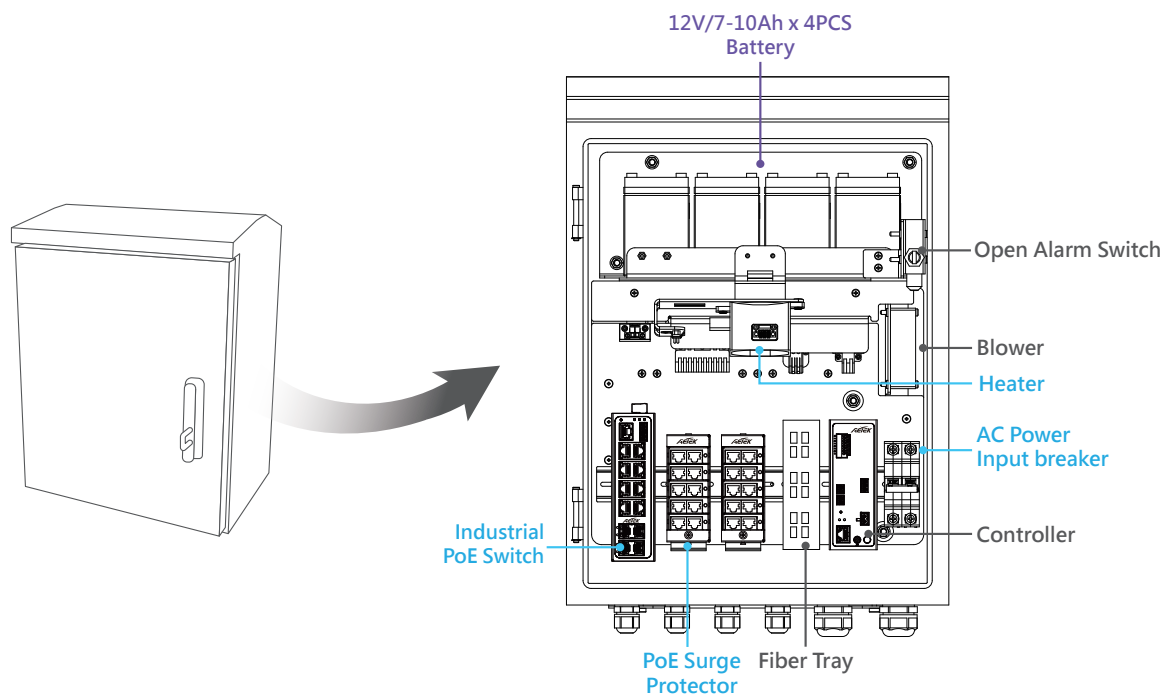
Power Status: AC Input



Power Status: Battery Input



Internal Structure



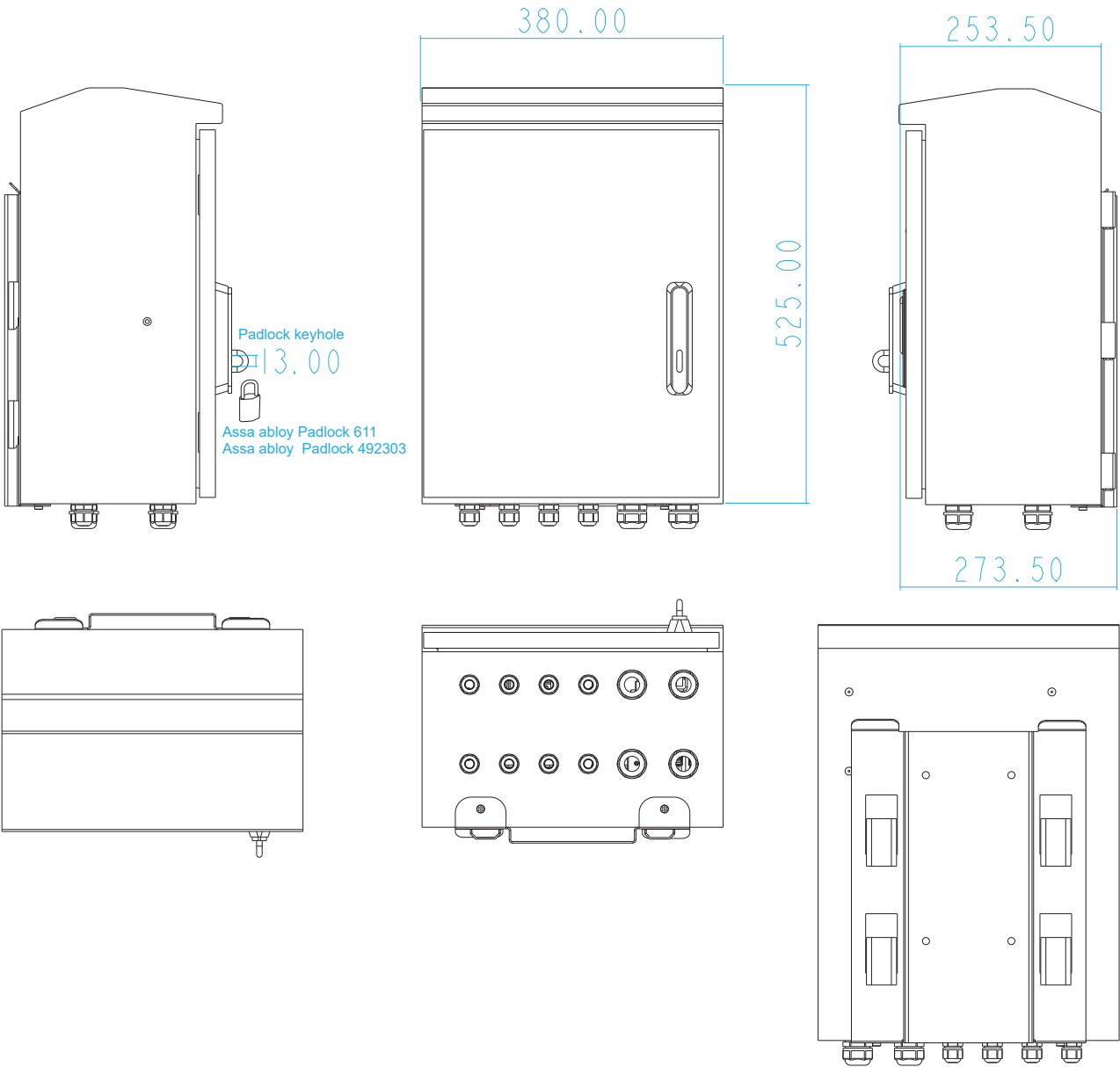
Included
Open Alarm Switch
Blower
Controller
Fiber Tray

Customer's Own
12V/7-10Ah Battery x4pcs

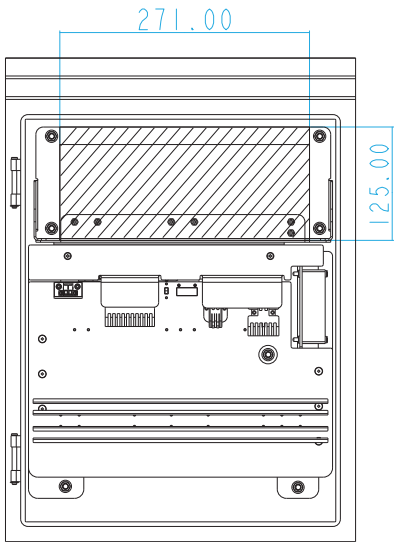
Optional
Pole Mount Adapter
ABB AC Switch
Heater Module
Industrial PoE Switch
PoE Surge Protector

Outside Dimensions

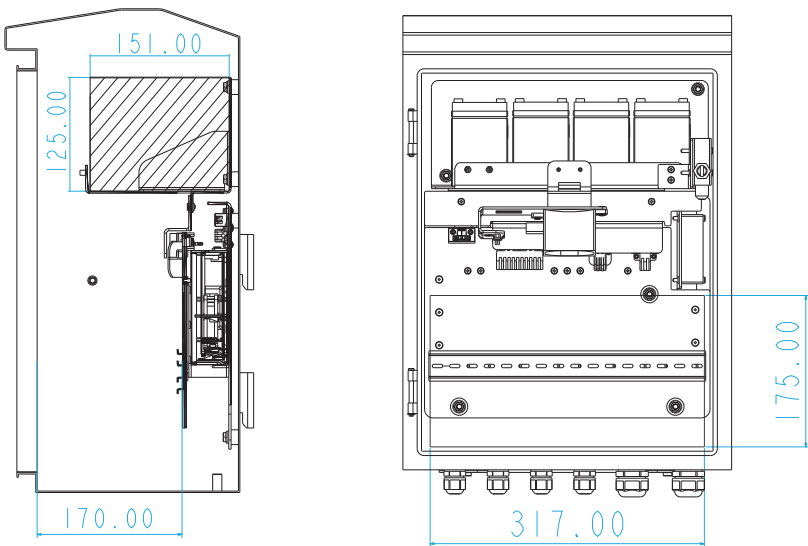
Unit: mm

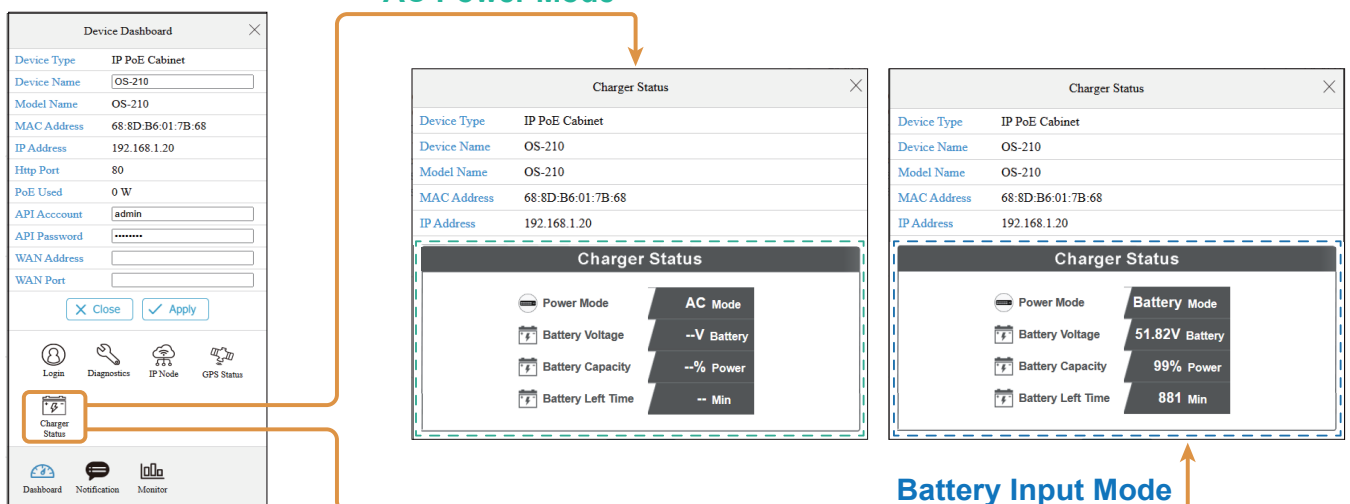


Battery Space



Device Space





Specifications

	OS-210-360	OS-210-600
Networking		
10/100Mbps Ethernet RJ45 Ports	1	1
Power		
Input Voltage	110VAC or 220VAC	110VAC or 220VAC
Output Power per DC Port (from power module)	1 x 55V DC@5.03A	1 x 55V DC@7.87A
Output Power per DC Port (from OS-210 controller)	1 x 12V DC@2.5A 1 x 24V DC@1.25A	1 x 12V DC@2.5A 1 x 24V DC@1.25A
Output Power Budget	360W	600W
System Power Consumption (without PoE)	12.3W	15W
Battery (not included)		
Battery Type	Lead Acid or Lithium (LiFePO4) batteries	Lead Acid or Lithium (LiFePO4) batteries
Battery Capacity	4 x 12V / 7-10Ah	4 x 12V / 7-10Ah
Max. Battery Size per Unit (W x D x H)	66 x 151 x 120 mm (2.6 x 5.94 x 4.72")	66 x 151 x 120 mm (2.6 x 5.94 x 4.72")
Total Battery Size (W x D x H)	280 x 151 x 140 mm (11.02 x 5.94 x 5.51")	280 x 151 x 140 mm (11.02 x 5.94 x 5.51")
Battery Charging Current	55V DC@1.5A	55V DC@3A
Battery Cutoff Voltage	43V±0.5V	43V±0.5V
Battery Reverse Polarity	Support	Support
Mechanical		
Enclosure Material	304L Stainless Steel	304L Stainless Steel
Handle	304 Stainless Steel Padlockable Swing Handle	304 Stainless Steel Padlockable Swing Handle
Padlock Seat	304 Stainless Steel; supports padlock shackle < Ø13 mm Recommended Padlocks: ASSA ABLOY Padlock 611 / Padlock 492303	304 Stainless Steel; supports padlock shackle < Ø13 mm Recommended Padlocks: ASSA ABLOY Padlock 611 / Padlock 492303
Dimensions (W x D x H)	380 x 273.5 x 525 mm (14.96 x 10.77 x 20.67")	380 x 273.5 x 525 mm (14.96 x 10.77 x 20.67")
Weight	12 kg (26.5 lb)	12.5 kg (27.6 lb)
DI/DO	2/2	2/2
Connectors	4 x M25 8 x M16	4 x M25 8 x M16
GPS Connect	SMA(with antenna)	SMA(with antenna)
Blower	Support	Support
Open Alarm Switch	Support	Support
Fiber Tray	Support (without LC adapter)	Support (without LC adapter)
Mounting	Wall Mounting Optional Pole Mounting Kit: AT-100 or AT-101 Optional Corner Mounting Kit: AT-200	Wall Mounting Optional Pole Mounting Kit: AT-100 or AT-101 Optional Corner Mounting Kit: AT-200
Environmental		
IP Rating	IP66	IP66
Operating Temperature	-5°C ~ 50°C (32°F ~ 122°F) -40°C ~ 50°C (-40°F ~ 122°F) with heater / blower module	-5°C ~ 50°C (32°F ~ 122°F) -40°C ~ 50°C (-40°F ~ 122°F) with heater / blower module
Storage Temperature	-20°C ~ 70°C (-4°F ~ 158°F)	-20°C ~ 70°C (-4°F ~ 158°F)
Accessories		
Optional (order separately)	ABB AC switch (Circuit Breaker) Heater / Blower Module Industrial PoE Switch PoE Surge Protector Pole or Corner Mount Adapter	ABB AC switch (Circuit Breaker) Heater / Blower Module Industrial PoE Switch PoE Surge Protector Pole or Corner Mount Adapter

*Batteries and padlocks are not included

Optional Accessories

OS-210-360 Parts					
	ABB S202-C10 • Miniature Circuit Breaker			HM-400 Series • Heater Module • 30°C < off / 15°C > on • 110VAC or 220VAC	
DIN-Rail Industrial L2 PRO Gigabit PoE Switches					
	D60-044-30 / D60-044-30-V2 • Supports NTS • 4xGbE 30W at PoE + 2xGbE RJ45 + 2xGbE SFP • 48-56V DC Input			D60-084-30 / D60-084-30-V2 • Supports NTS • 8xGbE 30W at PoE + 4xGbE SFP • 48-56V DC Input	
	D60-044-90 • Supports NTS • 4xGbE 90W bt/PoH PoE + 2xGbE RJ45 + 2xGbE SFP • 48-56V DC Input			D60-044-91 • Supports NTS • 4xGbE 90W bt PoE + 2xGbE RJ45 + 2xGbE SFP • 48-56V DC Input	
	D60-084-90 • Supports NTS • 8xGbE 90W bt/PoH PoE + 4xGbE SFP • 48-56V DC Input				
DIN-Rail Industrial Gigabit PoE Switches					
	D40-044-30 • 4xGbE 30W at PoE + 2xGbE RJ45 + 2xGbE SFP • 48-56V DC Input			D40-082-30 • 8xGbE 30W at PoE + 2xGbE SFP • 48-56V DC Input	
	D40-044-91 • 4xGbE 90W bt PoE + 2xGbE RJ45 + 2xGbE SFP • 48-56V DC Input			H32-042-30-V2 • 4xGbE 30W at PoE + 1xGbE Adjustable 24V or 56V DC Passive PoE + 1xGbE SFP • 48-56V DC Input	
	D42-042-91 • 2xGbE 90W bt PoE + 2xGbE Adjustable 24V or 56V DC Passive PoE + 2xGbE SFP • 12V and 24V DC Output • 52-56V DC Input				
DIN-Rail Industrial Gigabit PoE Media Converters					
	M30-011-30 • 1xGbE 30W at PoE + 1xGbE SFP • 48-56V DC Input		M30-022-90 • 2xGbE 90W PoH PoE + 2xGbE SFP • 48-56V DC Input		M30-022-91-V2 • 2xGbE 90W bt PoE + 2xGbE SFP • 48-56V DC Input
DIN-Rail Industrial Gigabit PoE Injectors					
	I69-200 • 1xGbE 95W PoH PoE + 1xGbE RJ45 • 48-56V DC Input			I69-210-V2 • 1xGbE 90W bt PoE + 1xGbE RJ45 • 48-56V DC Input	
DIN-Rail Industrial Gigabit PoE Splitter					
	S69-220 • Power Output: - 30W at, 60W/90W bt PoE Output - 5V/9V/12V/24V DC Output • 48-56V DC or 802.3af/at/bt PoE Input				
Modular IP PoE Surge Protector			Modular PoE Surge Protector		
	SD-504 • Supports Web UI & module lifetime detection • Alarm setup, logs and events • 4-CH hot-swappable PoE surge modules • Supports 10M/100M/1G/2.5Gbps Ethernet • Protects up to 20KV / 10KA surge			SD-404-V2 • 4-CH hot-swappable PoE surge modules • Supports 10M/100M/1G/2.5Gbps Ethernet • Protects up to 20KV / 10KA surge	
Pole Mount			Corner Mount		
	AT-100 • Pole Mount Adapter		AT-101 • Pole Mount Adapter		AT-200 • Corner Mount Adapter