

# 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:

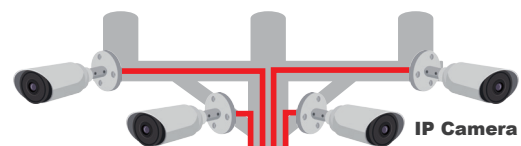
- Current power source and AC input voltage
- Battery voltage, remaining capacity, and estimated runtime
- Temperature, humidity and GPS coordinates
- Instant alerts for key events: power source change, battery low voltage, and more

### Rugged and Secured Design:

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

## Applications

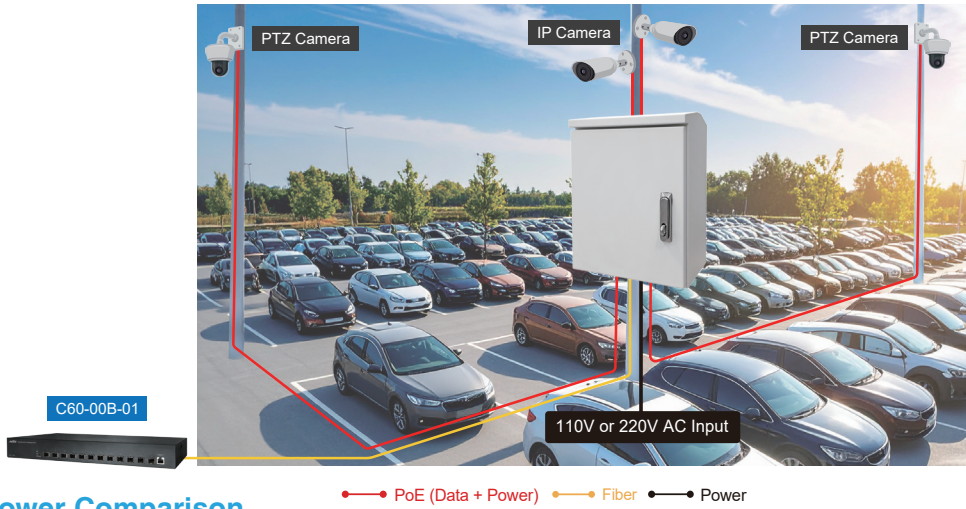
Built-in battery backup ensures continuous video recording during AC loss.



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

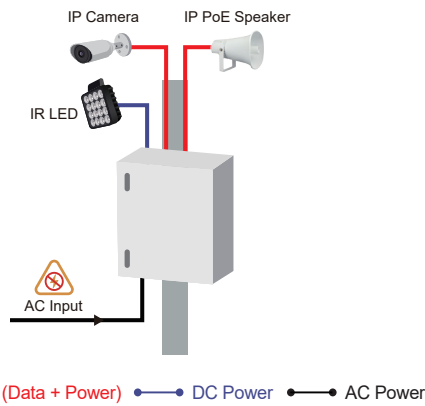
110V or 220V AC Input

—●— PoE (Data + Power) —●— Power —●— Fiber



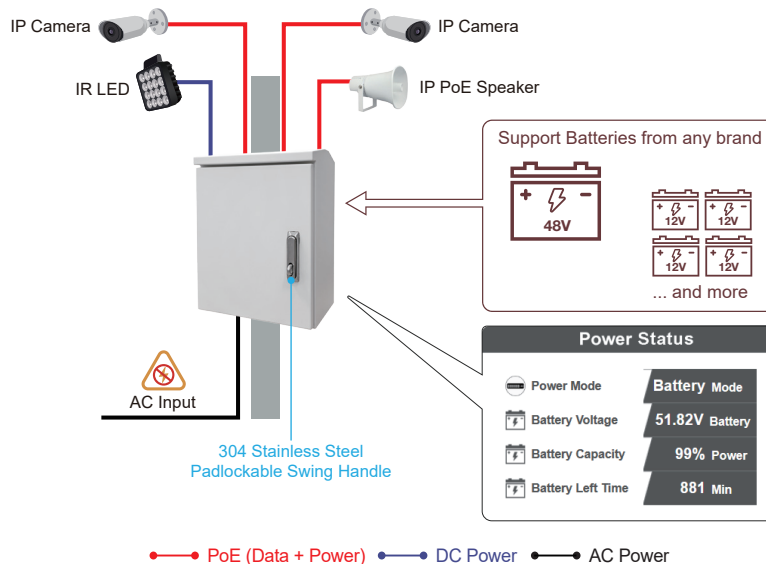
Backup Power Comparison

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

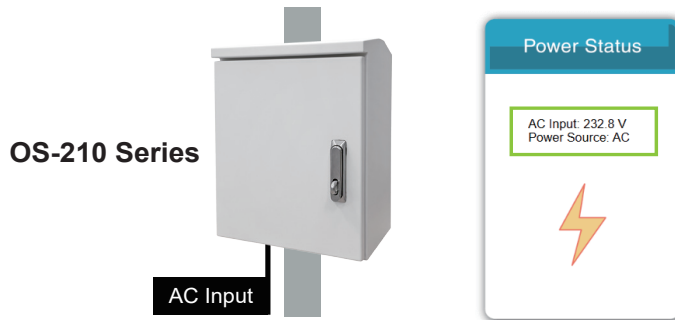
AETEK Model	Charging Current	Battery	Power Consumption Full Charge Time	Approximate Backup Time at Full Load					
				60W	120W	180W	240W	300W	360W
OS-210-360 with D60	1.5A	48V/7Ah Sealed Lead Acid Battery	4 hr 56 mn	3 hr 7 mn	1 hr 24 mn	46 mn	27 mn	-	-
		48V/10Ah Sealed Lead Acid Battery	7 hr 4 mn	4 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

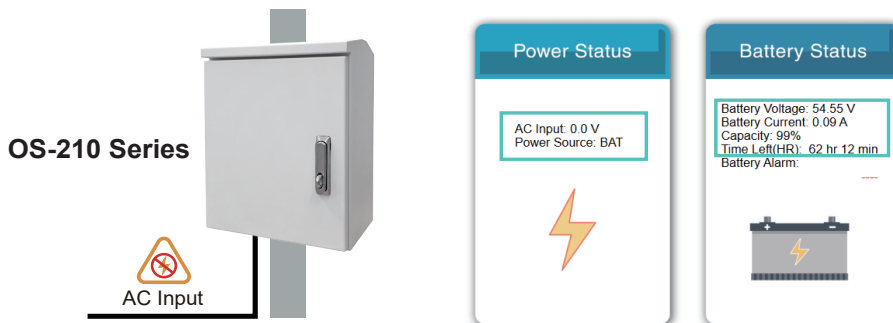


## System Information

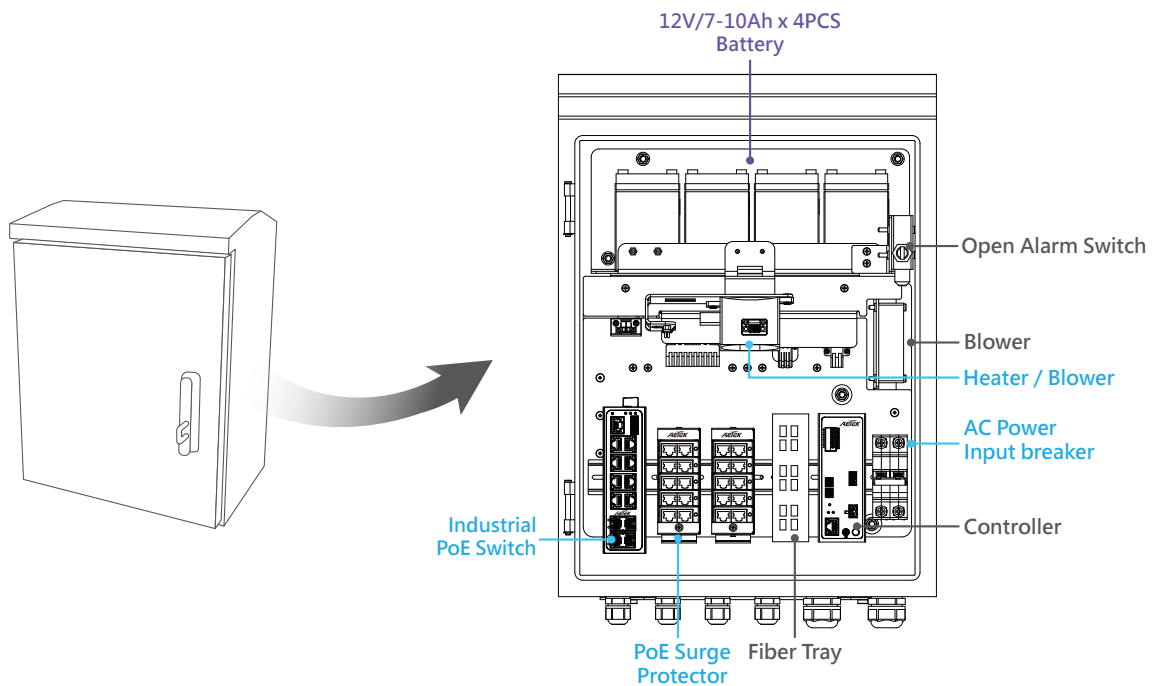
### Power Status: AC Input



### Power Status: Battery Input



## Internal Structure

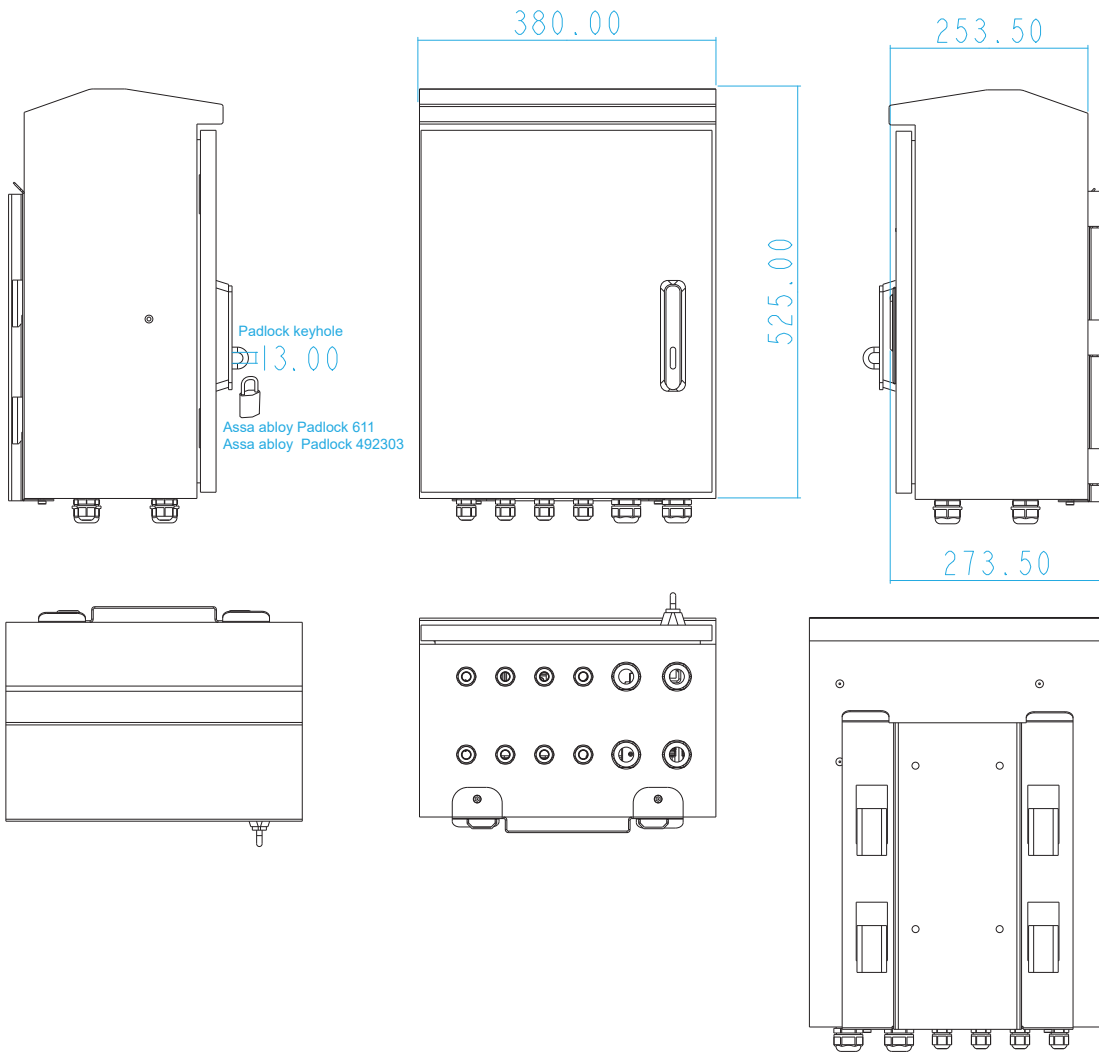


Included
Open Alarm Switch
Blower
Controller
Fiber Tray

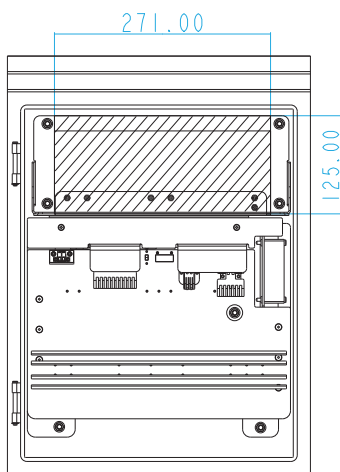
Customer's Own
12V/7-10Ah Battery x4pcs

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

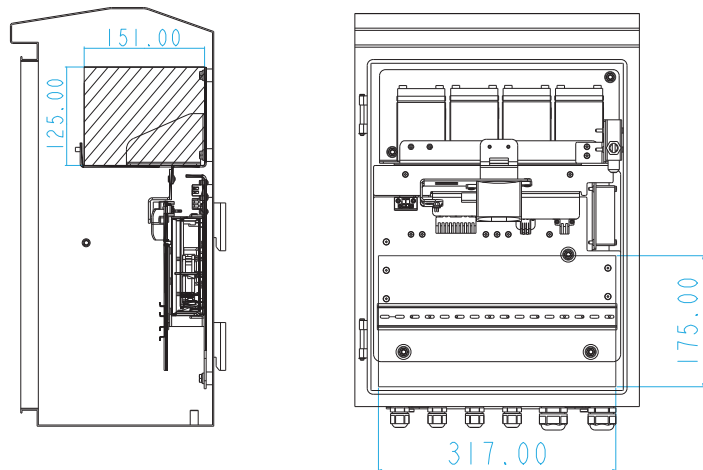
Outside Dimensions



Battery Space

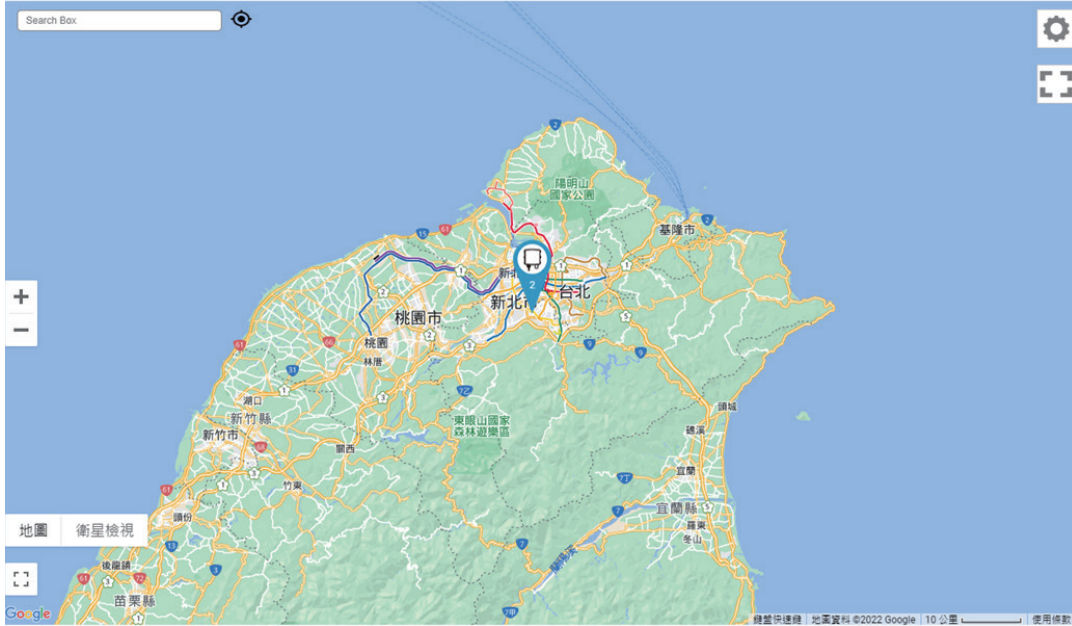


Device Space



# NTS (Network Topology System): OS-210 Series with DIN-Rail Industrial L2 PRO PoE Switches

## Google Map View



## Device Dashboard

D62-084-30-DC  
D62-084-30-DC  
68:8D:B6:33:22:11  
192.168.1.9  
PoE Supply 7.20 W  
DC Power Supply 0 W

Device Dashboard

Device Type	IP PoE Cabinet
Device Name	OS-210
Model Name	OS-210
MAC Address	68:8D:B6:01:7B:68
IP Address	192.168.1.20
Http Port	80
PoE Used	0 W
API Account	admin
API Password	*****
WAN Address	
WAN Port	

Close Apply

Login Diagnostics IP Node GPS Status

Charger Status

Dashboard Notification Monitor

Device type filter > Show All

Update: 2025/07/17 16:07:53 OK: 0.8s

- AETEK D62-084-30-DC  
D62-084-30-DC  
192.168.1.9  
68:8D:B6:33:22:11
- AETEK M6000-IW  
M6000-IW  
192.168.1.55  
68:8D:B6:00:00:00
- AETEK SD-504  
SD-504  
192.168.1.3  
68:8D:B6:00:00:10
- Hanwha Techwin QND-8011  
QND-8011  
192.168.1.35  
E4:30:22:1A:B8:0A
- AETEK OS-210  
OS-210  
192.168.1.20  
68:8D:B6:01:7B:68
- ACC Web Endpoint - AK00253Parker  
NTS Server  
192.168.1.111  
D4:61:37:06:B4:5F

NTS Server

## Charger Status

### AC Power Mode

Device Dashboard

Device Type	IP PoE Cabinet
Device Name	OS-210
Model Name	OS-210
MAC Address	68:8D:B6:01:7B:68
IP Address	192.168.1.20
Http Port	80
PoE Used	0 W
API Account	admin
API Password	*****
WAN Address	
WAN Port	

Close Apply

Login Diagnostics IP Node GPS Status

Charger Status

Dashboard Notification Monitor

Charger Status

Device Type	IP PoE Cabinet
Device Name	OS-210
Model Name	OS-210
MAC Address	68:8D:B6:01:7B:68
IP Address	192.168.1.20

Charger Status

Power Mode	AC Mode
Battery Voltage	--V Battery
Battery Capacity	--% Power
Battery Left Time	-- Min

Charger Status

Device Type	IP PoE Cabinet
Device Name	OS-210
Model Name	OS-210
MAC Address	68:8D:B6:01:7B:68
IP Address	192.168.1.20

Charger Status

Power Mode	Battery Mode
Battery Voltage	51.82V Battery
Battery Capacity	99% Power
Battery Left Time	881 Min

### Battery Input Mode



## Specifications

	OS-210-360	OS-210-600
<b>Networking</b>		
10/100Mbps Ethernet RJ45 Ports	1	1
<b>Power</b>		
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
<b>Battery (not included)</b>		
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
<b>Mechanical</b>		
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
<b>Environmental</b>		
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)
<b>Accessories</b>		
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

	<p><b>ABB S202-C10</b></p> <ul style="list-style-type: none"> <li>• Miniature Circuit Breaker</li> </ul>		<p><b>HM-400 Series</b></p> <ul style="list-style-type: none"> <li>• Heater / Blower Module</li> <li>• 30°C &lt; off / 15°C &gt; on</li> <li>• 110VAC or 220VAC</li> </ul>
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### DIN-Rail Industrial L2 PRO Gigabit PoE Switches

	<p><b>D60-044-30 / D60-044-30-V2</b></p> <ul style="list-style-type: none"> <li>• Supports NTS</li> <li>• 4xGbE 30W at PoE + 2xGbE RJ45 + 2xGbE SFP</li> <li>• 48-56V DC Input</li> </ul>		<p><b>D60-084-30 / D60-084-30-V2</b></p> <ul style="list-style-type: none"> <li>• Supports NTS</li> <li>• 8xGbE 30W at PoE + 4xGbE SFP</li> <li>• 48-56V DC Input</li> </ul>
	<p><b>D60-044-90</b></p> <ul style="list-style-type: none"> <li>• Supports NTS</li> <li>• 4xGbE 90W bt/PoH PoE + 2xGbE RJ45 + 2xGbE SFP</li> <li>• 48-56V DC Input</li> </ul>		<p><b>D60-044-91</b></p> <ul style="list-style-type: none"> <li>• Supports NTS</li> <li>• 4xGbE 90W bt PoE + 2xGbE RJ45 + 2xGbE SFP</li> <li>• 48-56V DC Input</li> </ul>
	<p><b>D60-084-90</b></p> <ul style="list-style-type: none"> <li>• Supports NTS</li> <li>• 8xGbE 90W bt/PoH PoE + 4xGbE SFP</li> <li>• 48-56V DC Input</li> </ul>		



### DIN-Rail Industrial Gigabit PoE Switches

	<p><b>D40-044-30</b></p> <ul style="list-style-type: none"> <li>• 4xGbE 30W at PoE + 2xGbE RJ45 + 2xGbE SFP</li> <li>• 48-56V DC Input</li> </ul>		<p><b>D40-082-30</b></p> <ul style="list-style-type: none"> <li>• 8xGbE 30W at PoE + 2xGbE SFP</li> <li>• 48-56V DC Input</li> </ul>
	<p><b>D40-044-91</b></p> <ul style="list-style-type: none"> <li>• 4xGbE 90W bt PoE + 2xGbE RJ45 + 2xGbE SFP</li> <li>• 48-56V DC Input</li> </ul>		<p><b>H32-042-30-V2</b></p> <ul style="list-style-type: none"> <li>• 4xGbE 30W at PoE + 1xGbE Adjustable 24V or 56V DC Passive PoE + 1xGbE SFP</li> <li>• 48-56V DC Input</li> </ul>
	<p><b>D42-042-91</b></p> <ul style="list-style-type: none"> <li>• 2xGbE 90W bt PoE + 2xGbE Adjustable 24V or 56V DC Passive PoE + 2xGbE SFP</li> <li>• 12V and 24V DC Output</li> <li>• 52-56V DC Input</li> </ul>		


### DIN-Rail Industrial Gigabit PoE Media Converters

	<p><b>M30-011-30</b></p> <ul style="list-style-type: none"> <li>• 1xGbE 30W at PoE + 1xGbE SFP</li> <li>• 48-56V DC Input</li> </ul>		<p><b>M30-022-90</b></p> <ul style="list-style-type: none"> <li>• 2xGbE 90W PoH PoE + 2xGbE SFP</li> <li>• 48-56V DC Input</li> </ul>		<p><b>M30-022-91-V2</b></p> <ul style="list-style-type: none"> <li>• 2xGbE 90W bt PoE + 2xGbE SFP</li> <li>• 48-56V DC Input</li> </ul>
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### DIN-Rail Industrial Gigabit PoE Injectors

	<p><b>I69-200</b></p> <ul style="list-style-type: none"> <li>• 1xGbE 95W PoH PoE + 1xGbE RJ45</li> <li>• 48-56V DC Input</li> </ul>		<p><b>I69-210-V2</b></p> <ul style="list-style-type: none"> <li>• 1xGbE 90W bt PoE + 1xGbE RJ45</li> <li>• 48-56V DC Input</li> </ul>
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### DIN-Rail Industrial Gigabit PoE Splitter

	<p><b>S69-220</b></p> <ul style="list-style-type: none"> <li>• Power Output:             <ul style="list-style-type: none"> <li>- 30W at, 60W/90W bt PoE Output</li> <li>- 5V/9V/12V/24V DC Output</li> </ul> </li> <li>• 48-56V DC or 802.3af/at/bt PoE Input</li> </ul>
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### Modular IP PoE Surge Protector

	<p><b>SD-504</b></p> <ul style="list-style-type: none"> <li>• Supports Web UI &amp; module lifetime detection</li> <li>• Alarm setup, logs and events</li> <li>• 4-CH hot-swappable PoE surge modules</li> <li>• Supports 10M/100M/1G/2.5Gbps Ethernet</li> <li>• Protects up to 20KV / 10KA surge</li> </ul>
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### Modular PoE Surge Protector

	<p><b>SD-404-V2</b></p> <ul style="list-style-type: none"> <li>• 4-CH hot-swappable PoE surge modules</li> <li>• Supports 10M/100M/1G/2.5Gbps Ethernet</li> <li>• Protects up to 20KV / 10KA surge</li> </ul>
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### Pole Mount

	<p><b>AT-100</b></p> <ul style="list-style-type: none"> <li>• Pole Mount Adapter</li> </ul>
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### Corner Mount

	<p><b>AT-101</b></p> <ul style="list-style-type: none"> <li>• Pole Mount Adapter</li> </ul>		<p><b>AT-200</b></p> <ul style="list-style-type: none"> <li>• Corner Mount Adapter</li> </ul>
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