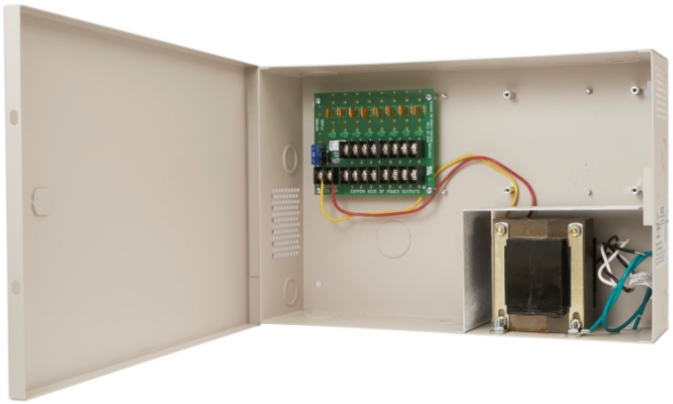
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ASSA ABLOY, the global leader
in door opening solutions

AccuPower AQTVA Series
AC Output for Video Surveillance
8 or 16 Outputs
Installation Instructions



Recommended Tools & Additional Materials (Not Included)		
Drill	Wire stripper	Additional mounting hardware
Screw Driver	Cam Lock	

Specifications

Mechanical	Electrical	Environmental	Regulatory
Physical Size: Height: 9" [229 mm] Depth: 3.75" [96 mm] Length: 14" [356"] **Weight** **AQTVA4-(8F or 8F)** 10.5 lbs **AQTVA8-(8F or 8F)** 12.0 lbs **AQTVA8-(16F or 16F)** 12.8 lbs	**Input Voltage Operating Range** 115VAC 50-60Hz **Total Output Voltage (@24VAC)** AQTVA4-(8F or 8C): 4 Amps AQTVA8-(8F or 8C): 7.3 Amps AQTVA8-(16F or 16C): 7.3 Amps **Individual Output Protection** AQTVA4-8F: 2A Fuses AQTVA4-8C: 1.42A PTCs AQTVA8-8F: 2A Fuses AQTVA8-8C: 1.42A PTCs AQTVA8-16F: 2A Fuses AQTVA8-16C: 1.42A PTCs	**Operating Temperature** 0ºF to 130ºF [-17 to 54ºC] **Humidity** 10% to 95% RH For indoor use only	**UL 2044** **C22.2 No.1-98** **RoHS Compliant**

Notes: All outputs are isolated from primary and ground. All 4A units have a 2A in-line fuse. Do not expose to rain or moisture. **Caution:** De-energize unit prior to servicing.

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Module Options

AccuPower	Output Amps	Output Voltage	ATO Main Fuse	Output Channels	Fuse Type	Fuse Size	Outputs Class 2 Power Limited
AQTVA4-8F	4	24VAC	5A	8	Fuse	2 A	N
AQTVA4-8C	4	24VAC	7.5A	8	PTC	1.42 A	Y
AQTVA8-8F	7.3	24VAC	10A	8	Fuse	2 A	N
AQTVA8-8C	7.3	24VAC	15A	8	PTC	1.42 A	Y
AQTVA8-16F	7.3	24VAC	10A	16	Fuse	2 A	N
AQTVA8-16C	7.3	24VAC	20A	16	PTC	1.42 A	Y

Applications

The AQTVA Series provides AC output to power cameras, electrified locks, and other devices that require 24VAC power.

Pre-Installation Survey

Before installing the AQTV Power Supply, the mounting location should be determined and assessed for the following:

- Availability of AC power service
- Protection from vandalism and tampering
- Sufficient clearance for air circulation and heat dispersal

CAUTION: Check with your local code inspectors to ensure your compliance with the National Electrical Code (ANSI/NFPA 70), (Canadian Electrical Code for Canada) or equivalent and any additional licensing and wiring requirements for your jurisdiction.

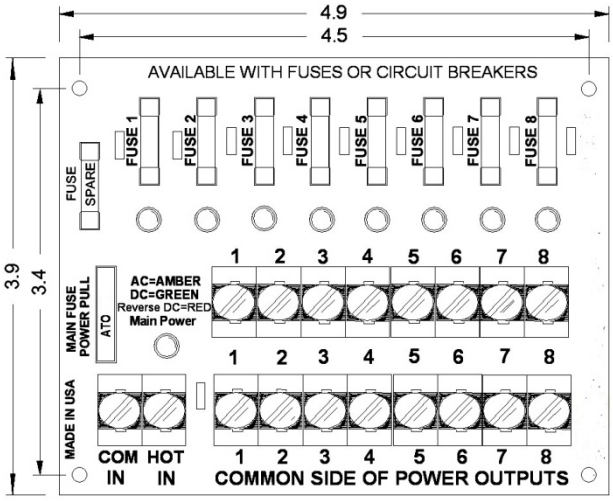
A. Installing the Enclosure	
1.	**Mark Mounting Holes:** Select mounting location so that AC input conduit can be aligned with one of the knock-outs on the bottom or lower right side or back of the enclosure. **IMPORTANT: AC input is not power limited. AC lines must be enclosed in approved conduit. AC Input lines must be separated by at least ¼" from Class 2 power-limited output wires.** Mark hole locations on the mounting surface for keyholes at top/back of enclosure, ensuring marks are level. Install mounting screws appropriate for the mounting location, leaving enough hardware exposed to insert through keyholes at the back of the enclosure.
2.	**Remove Knock-Out for AC Conduit Connection** Using a flathead screwdriver and hammer, carefully break metal tabs to detach knock-out cover from enclosure. Needle nose pliers may also be used.
3.	**Remove Knock-Out for Output Wires** Identify desired routing location for output wires on right top, side, or bottom of enclosure. Ensure wires maintain at least ¼" separation from AC input. Remove knock-out cover from enclosure.
4.	**Optional: Install Cam Lock** The AccuPower enclosure supports the use of a cam lock. Break metal tabs to detach cam lock knock-out from enclosure. Install cam lock according to manufacturer's directions and test to ensure cam latch engages tab on inside of enclosure.
5.	**Mount Enclosure** Place keyholes over mounting screws and slide power supply downward. Ensure proper alignment between knock-out and AC conduit. Install screws through holes at bottom back and fasten all securely.

B. Making Electrical Connections

1. Transformer

Component	Component Name	Function
Transformer	AC Input	3-wire AC input Connect AC input power wires as follows: Black = Positive White = Neutral Green = Ground
	AC Output	2-wire AC output connects to Power Distribution Boards. Red = Positive Yellow = Neutral
Fuse Assembly (only of 4A Models)	Fuse Assembly	Black fuse holder mounted on AC guard. Removable cover allows glass 2 ACG fuse to be replaced.

2. Power Distribution Board (Two are used for 16 output Models)

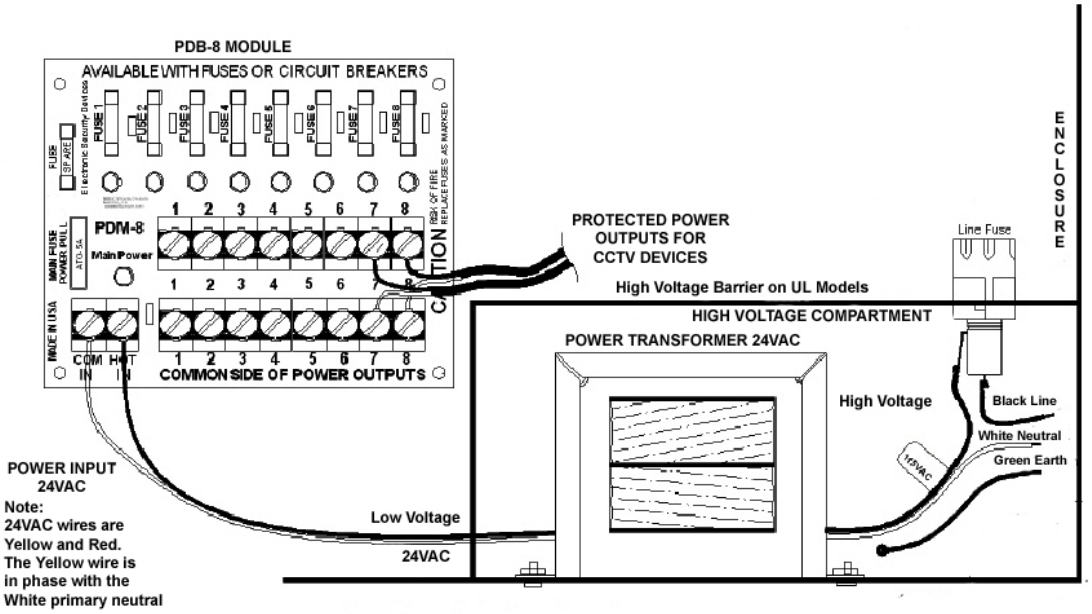


Component	Component Name	Function
ATO Main Fuse	**MAIN FUSE**	Main Fuse and Power Pull protects output side from voltage surges. Removing fuse disconnects all outputs from input.
AC Input Terminal Block	**COM IN HOT IN**	2-wire AC input terminal block rated to 40A accepts 10-28 AWG wire.
AC Input Status LED	**D9**	LED indicator for board AC input status. Lit indicates power.
Output Terminal Blocks	**Upper & Lower**	A 2-wire AC outputs provide separate channels to support wire runs to device. Upper Block Channels 1-8 = Hot Lower Block Channels 1-8(Common Side of Power Outputs)=Neutral
Output Power Status LED	**D1 – D8**	Green LED indicators labeled by channel indicate output channel power status. Lit indicates powered. Unlit indicates blown fuse or no AC input.

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	Output Fuses or PTCs	**F1-F4 or PTC1-PTC-4**	2 ACG glass fuses or self-resetting Positive Temperature Coefficient (PTC) circuit breakers protecting each channel from high current. PTCs will self-reset upon cool down.
	Spare Fuse	**SPARE FUSE**	Extra 2ACG glass fuse for blown fuse replacement. (Note: This slot is empty on boards with PTCs)

3. Electrical Connections (8 Output Model shown)



4. Make AC Power Output Connections to Devices*

Route wires through knock-out opening created in step A3. Maintain separation from input wires.

Connect the positive wire from device to "+" terminal on distribution board and the neutral wire from device to the "-".

Repeat steps for all channels.

*Use wire gauge appropriate for application.

5. Turn AC Power On

C. Testing	
1.	**Test Input and Outputs** **AC Input:** Turn on AC power to power supply. Confirm LED on front of enclosure is lit. **AC Output**: Confirm LED is lit on each channel used.
2.	**Replacing AC Line Fuse (2A Models Only)** Turn off AC Power. Grasp fuse holder cap above AC guard. Push down while twisting. Replace fuse.
3.	**Replacing ATO Main Fuse** Remove ATI Main Fuse from Power Distribution Board to replace or to disconnect all outputs from input. Note for all units with replaceable fuses: For continued protection against the risk of electrical shock or fire, replace fuse with the same type and rating.
4.	**Replacing Power Distribution Board fuses:** Remove ATI Main Fuse from Power Distribution Board or remove main power. Replace blown fuse with same type and rating. Apply main power.

Troubleshooting	
ISSUE	**TROUBLESHOOTING TIPS**
AC Power indicator does not light	Confirm input branch power is ON Check Main Fuse/Power Pull Check AC output
Channel LED not lit	Swap out fuse for (F) models or disconnect load from main power for 2 minutes for (C) models
All LEDs no lit	Check power
Maintenance	To disconnect load, remove main fuse

Problems with installation? Call Securitron: **1-800-MAG-LOCK**

For warranty information: **www.securitron.com/en/site/securitron/About/MagnaCare-Warranty**