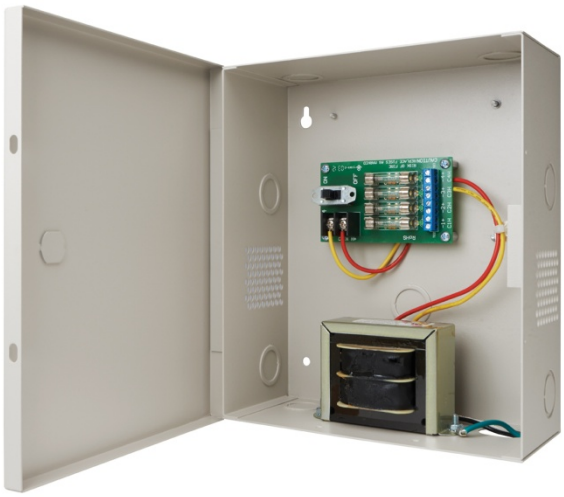
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ASSA ABLOY, the global leader
in door opening solutions

AccuPower AQTVA Series
for AC Output for Video Surveillance
4 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: 3.5” [89 mm] Width: 7” [177 mm] **Weight** **AQTVA4-(4F or 4C)** 8.1 lbs **AQTVA8-(4F or 4C)** 12.0 lbs	**Input Voltage Operating Range** 115VAC 50-60Hz **Total Output Voltage (@24VAC)** AQTVA4-(4F or 4C): 4 Amps AQTVA8-(4F or 4C): 7.3 Amps **Individual Output Protection** AQTVA4-4F: 2A Fuses AQTVA4-4C: 1.42A PTCs AQTVA8-4F: 2A Fuses AQTVA8-4C: 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. Do not expose to rain or moisture.
Caution: De-energize unit prior to servicing.

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P/N 500-33300
Rev. A, 08/13

Module Options

AccuPower	Output Amps	Output Voltage	Main Fuse/ Power Pull (per PDB)	Output Channels	Fuse Type	Fuse Size	Outputs Class 2 Power Limited
AQTVA4-4F	4	24VAC	5A	4	Fuse	2 A	N
AQTVA4-4C	4	24VAC	7.5A	4	PTC	1.42 A	Y
AQTVA8-4F	7.3	24VAC	10A	4	Fuse	2 A	N
AQTVA8-4C	7.3	24VAC	15A	4	PTC	1.42 A	Y

Applications

The AQTVA Series provides AC power to cameras, heaters, electrified locks, and other devices that use 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.

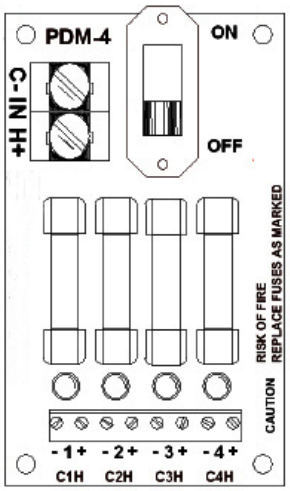
A. Installing the Enclosure	
1.	**Mark Mounting Holes:** Select mounting location so that AC input conduit can be aligned with one of the knock-outs on the bottom or lower right side or back of the enclosure. **IMPORTANT: AC input is not power limited. AC lines must be enclosed in approved conduit. AC 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 Name	Component Name	Function
Transformer	AC Input	3-wire AC input accepts 115 VAC +/- 10% 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

2. Power Distribution Board



Component	Component Name	Function
AC Input Terminal Block	**TB1**	2-wire AC input terminal block rated to 10A accepts 14-28 AWG wire.
Power Switch	**SW1**	Output can be manually powered on and off by moving the switch up and down.
Output Terminal Block	**TB2 & TB3**	A 2-wire AC outputs provide separate channels to support wire runs to device. + = Hot - = Neutral
Output Power Status LED	**D1 – D4**	Green LED indicators above each channel indicate output channel power status. Lit indicates powered. Unlit indicates blown fuse or no AC input
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.

3.	**Make AC Power Input Connections** **IMPORTANT: VERIFY AC POWER IS OFF BEFORE MAKING CONNECTIONS** The transformer accommodates 90-115VAC input. Connect AC power wires as follows: Black = Positive White = Neutral Green = Ground Note: It is important to ground the transformer using the Green ground wire.
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**

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 Power Distribution Board fuses:** Remove main power. Replace blown fuse with same type and rating. Apply main power.

Troubleshooting

ISSUE	TROUBLESHOOTING TIPS
AC Power indicator on distribution board does not light	Confirm AC input wires are securely wired to transformer wires Confirm AC input wires from transformer to distribution board are securely wired into the terminal blocks Check AC output. Check that power is ON
Channel LED not lit	Check AC input is ON and AC power indicator is lit Replace fuse or disconnect load for 2 minutes for -4C models
All LEDs not lit	Check AC input 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**