


Figure 1.1. Top View of AHV12VPN5KV2MAW

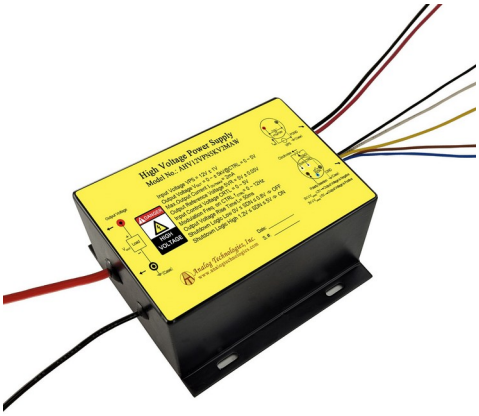


Figure 1.2. Side View



Figure 1.3. Bottom View



Figure 1.4. Side View



Figure 1.5. Side View



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## FEATURES

- Input Power Voltage: 12V ± 1V
- Input Current Range: 250mA to 1.2A
- Output Voltage: 0 to ±5kV@CTRL = 0 to 5V
- Max. Output Current: 2mA
- Reference Voltage: 5V ± 0.05V
- Input Control Voltage: 0 to 5V
- Electronic Shutdown Control Available
- Zero EMIs and Good Heat Sinking by Metal Enclosure

## APPLICATIONS

This power module, AHV12VPN5KV2MAW, is designed for achieving DC-DC conversion from low voltage to high voltage as a power supply source. It can be used for:

- X-ray Machine
- Spectral Analysis
- Nondestructive Inspection
- Semiconductor Manufacturing Equipment
- Particle Accelerator
- Capillary Electrophoresis
- Particles Injection
- Physical Vapor Phase Deposition
- Electrospinning Preparation of Nanofiber
- Glass / Fabric Coating
- DC Reactive Magnetron Sputtering

## DESCRIPTION

Figure 2 shows the connecting wires of AHV12VPN5KV2MAW, of which their detail information given in Table 1. The output voltage can be set to a constant value by connecting the CTRL port to the central tap of a POT (Potentiometer) corresponding to 0V to ±5kV proportionally at the output VOUT port as shown in Figure 3.

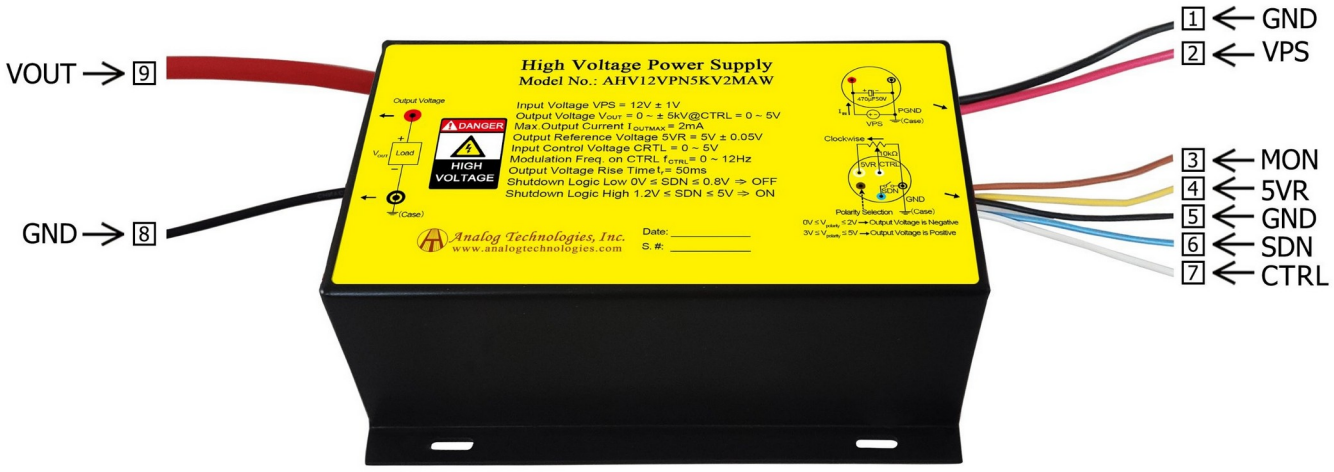



Figure 2. The Connecting Lead Wires of AHV12VPN5KV2MAW



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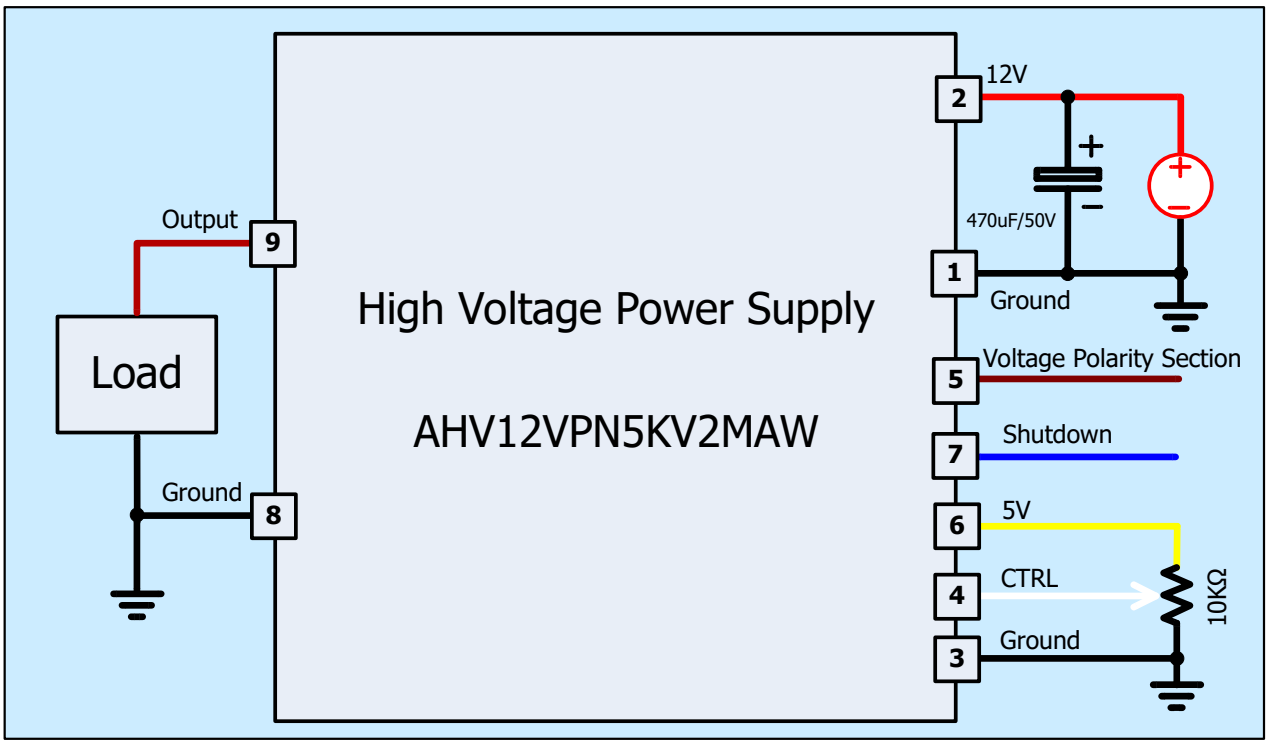
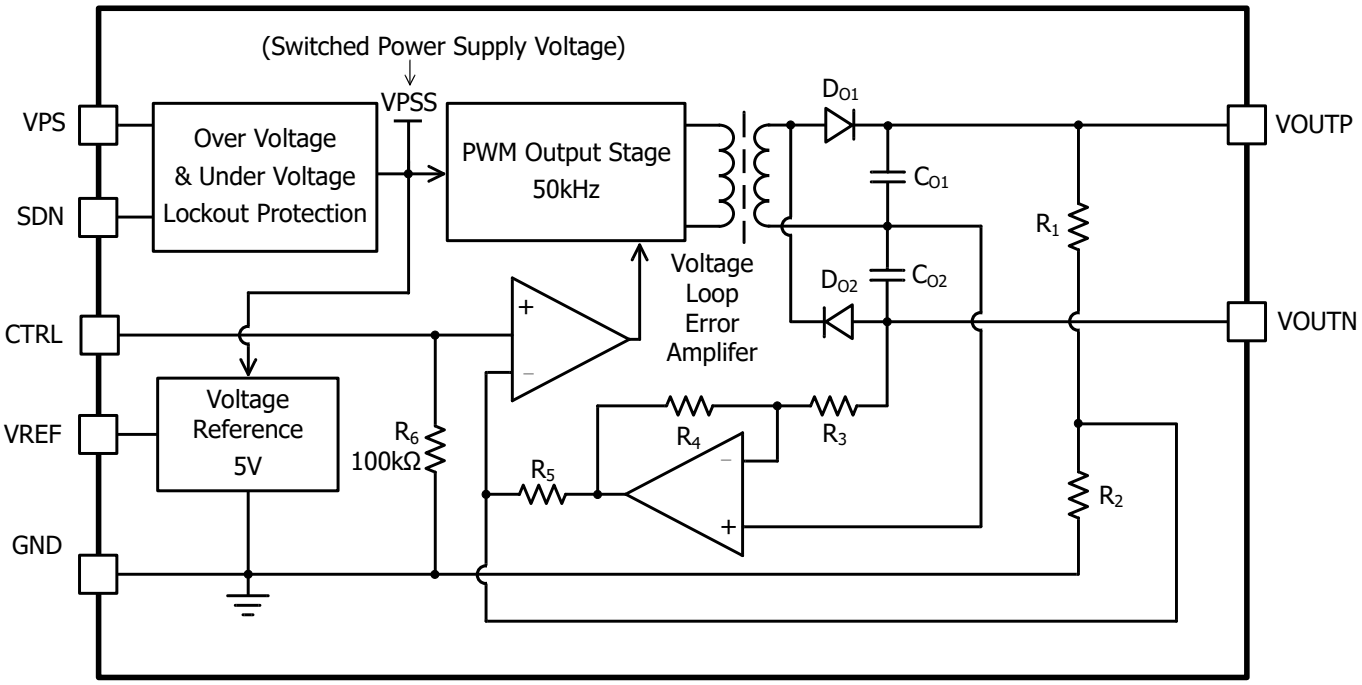



Figure 3. Setting Output to be a Constant Voltage




VOUTP = −VOUTN = N×$V_{CTRL}$, Where N is the amplification factor: N = $R_1/R_2$ = $R_3/R_4$, R5 = $R_1//R_2$

Figure 4. High Voltage Power Supply Function Block Diagram



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**Table 1. Pin Names, Colors, Functions and Specifications.**

| No. | Name | Color | | Type | Description | Min. | Typ. | Max. |
|---|---|---|---|---|---|---|---|---|
| 1 | GND | Black | ● | Ground for analog, digital and power signals. | Input GND | | 0V | |
| 2 | VPS | Red | ● | Power input | Input voltage | | 12V | |
| 3 | GND | Black | ● | Ground for analog, digital and power signals. | Control GND | | 0V | |
| 4 | CTRL | White | ○ | Analog input | Regulation | 0V | | 5V |
| 5 | $V_{Polarity}$ | Brown | ● | Analog input Voltage Polarity Section | Positive Output Voltage | 3V | | 5V |
| | | | | | Negative Output Voltage | 0V | | 2V |
| 6 | 5VR | Yellow | ● | Analog output | Reference voltage | | 5V | |
| 7 | SDN | Blue | ● | Digital input | Shutdown logic low | 0V | | 0.8V |
| | | | | | Shutdown logic high | 1.2V | | 5V |
| 8 | GND | Black | ● | Power output | Output GND | | 0V | |
| 9 | VOUT | Brown | ● | Power output | Output high voltage | 0V | | ±5kV |

# SPECIFICATIONS

**Table 2. Characteristics. $T_A$ = 25°C, unless otherwise noted.**

| Parameter | Symbol | Test Conditions | Min. | Typ. | Max. | Unit/Note |
|---|---|---|---|---|---|---|
| Input Power Supply Voltage | $V_{VPS}$ | | 11 | 12 | 13 | V |
| Input Power Supply Quiescent Current | $I_{VPS_QC}$ | $I_{VOUT}$ = 0mA | 250 | 300 | 350 | mA |
| Input Power Supply Current at Full Load | $I_{VPS_FL}$ | $I_{VOUT}$ = 2mA | 1.1 | 1.2 | 1.3 | A |
| Input Power Current at Shutdown | $I_{VPS_SHDN}$ | $T_A$ = −10˚C ~ 55˚C | | 13 | | mA |
| Modulation Voltage Range on CTRL | $V_{CTRL}$ | | 0 | | 5 | V |
| Modulation Frequency Range on CTRL | $f_{CTRL}$ | | 0 | | 12 | Hz |
| Shutdown Port Current | $I_{SDNL}$ | $V_{SDNL}$ < 0.8V | 4 | | 4.8 | µA |
| | $I_{SDNH}$ | 1.2V < $V_{SDNL}$ < 5V | 0 | | 3.6 | µA |
| Shutdown Voltage Logic Low | $V_{SDNL}$ | | 0 | | 0.8 | V |
| Shutdown Voltage Logic High | $V_{SDNH}$ | | 1.2 | | 5 | V |
| Output Voltage | $V_{VOUT}$ | $I_{VOUT}$ = 0 ~ 2mA | 0 | | ±5000 | V |
| Output Current Range | $I_{VOUTMAX}$ | $V_{VPS}$ = 11V ~ 13V | 0 | | 2 | mA |
| Reference Voltage Output Range | $V_{5VR}$ | $T_A$ = −10˚C ~ 55˚C<br>$I_{5VR}$ ≤ 1mA | 4.95 | 5 | 5.05 | V |



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| Parameter | | Symbol | Test Conditions | Min. | Typ. | Max. | Unit/Note |
|---|---|---|---|---|---|---|---|
| Output Load Resistance Range | | | | $\frac{V_{VOUT}}{I_{VOUT}}$ | | ∞ | MΩ |
| Output Voltage Ripple | | $V_{VOUT_RP}$ | Bandwidth = 1MHz<br>$R_{LOAD}$ = 2.5MΩ | | ≤2.5 | | $V_{P-P}$ |
| Output Voltage Temperature Coefficient | | $TCV_{VOUT}$ | $V_{VPS}$ = 12V<br>$V_{CTRL}$ = $V_{5VR}$ = 5V<br>$V_{VOUT}$ = ±5kV<br>$I_{VOUT}$ = 2mA<br>$T_A$ = −10℃ ~ 55℃ | | ≤0.1 | | %/℃ |
| Output Voltage Range v.s. Temperature | | $V_{VOUT}(T)$ | $V_{VPS}$ = 12V<br>$V_{CTRL}$ = $V_{5VR}$ = 5V<br>$V_{VOUT}$ = ±5kV<br>$I_{VOUT}$ = 2mA<br>$T_A$ = −10℃ ~ 55℃ | $0.99V_{VOUT}$ | $V_{VOUT}$ | $1.01V_{VOUT}$ | V |
| Output Voltage Drift | Short Term Drift | $\frlvert\Delta V_{VOUT}/V_{VOUT}\frrvert$ / Δt (min) | $V_{VPS}$ = 12V<br>$V_{CTRL}$ = $V_{5VR}$ = 5V<br>$V_{VOUT}$ = ±5kV<br>$I_{VOUT}$ = 2mA<br>$T_A$ = −10℃ ~ 55℃ | | ≤0.3 | | %/min |
| | Long Term Drift | $\frlvert\Delta V_{VOUT}/V_{VOUT}\frrvert$ / Δt (h) | | | ≤0.5 | | %/h |
| Output Voltage Rise Time | | $t_r$ | $V_{VOUT}$ ($t_1$) = ±500V<br>$V_{VOUT}$ ($t_2$) = ±4500V<br>$R_{LOAD}$ = 2.5MΩ | | 50 | | ms |
| Output Voltage Fall Time | | $t_f$ | $V_{VOUT}$ ($t_2$) = ±4500V<br>$V_{VOUT}$ ($t_3$) = ±500V<br>$R_{LOAD}$ = 2.5MΩ | | 100 | | ms |
| Mean Time Between Failure | | MTBF | | | 1M | | h |
| Instantaneous Short Circuit Current at the Output | | $I_{VOUT_SC}$ | | | ≤100 | | mA |
| Load Regulation | | $\frlvert\Delta V_{VOUT}/V_{VOUT}\frrvert$ / $\Delta I_{VOUT}$ | $V_{VOUT}$ = ±5kV<br>$I_{VOUT}$ = 2mA | | ≤0.05 | | %/mA |
| Full Load Efficiency | | η | $V_{VPS}$ = 12V<br>$V_{VOUT}$ = ±5kV<br>$I_{VOUT}$ = 2mA | | ≥70 | | % |
| Operating Temperature Range | | $T_{opr}$ | | −10 | | 55 | ℃ |
| Storage Temperature Range | | $T_{stg}$ | | −20 | | 85 | ℃ |
| External Dimensions | | | | 140×100×55 | | | mm |
| | | | | 5.51×3.94×2.17 | | | inch |
| Weight | | | | | 1000 | | g |
| | | | | | 2.21 | | lbs |
| | | | | | 35.27 | | Oz |



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# TESTING DATA

Test conditions: $V_{VPS}$ = 12V, $T_A$ = 25℃, $R_{LOAD}$ = 2.5MΩ

### DC Testing

The measured output voltage, $V_{VOUT}$, corresponding to the control port input voltage, $V_{CTRL}$, is shown in Figure 5. A 2V or higher input voltage is applied to voltage polarity selection, the output voltage is positive. When a 1V or lower input voltage is applied to voltage polarity selection, the output voltage is negative.

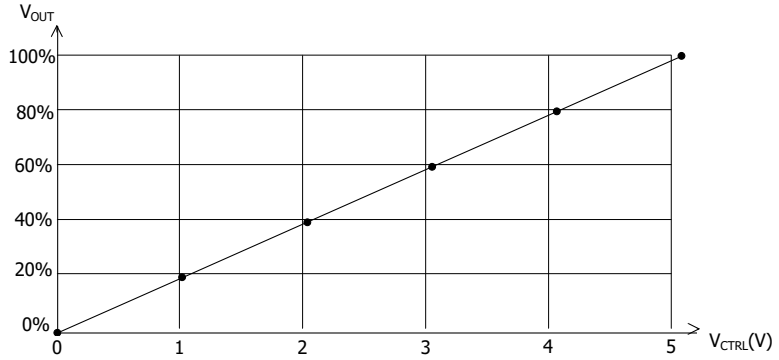



Figure 5. $V_{CTRL}$ vs. $V_{VOUT}$

### AC Testing

To test the analog modulation function, a triangle and sine-wave voltage signals are applied to the CTRL port as the input source signal respectively. Figure 6 and 7 show both the input signal and the output signal waveforms when using the triangle and sine-wave signals at the CTRL port respectively.

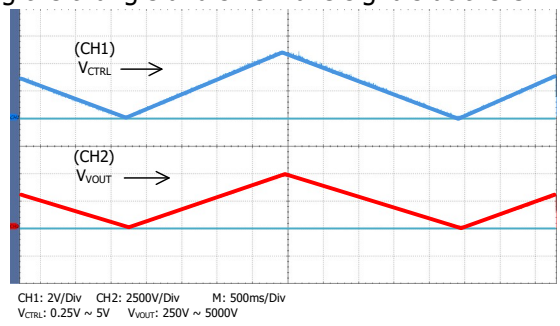



Figure 6A. Triangle Wave Modulation ($V_{OUT}$ = 5kV)

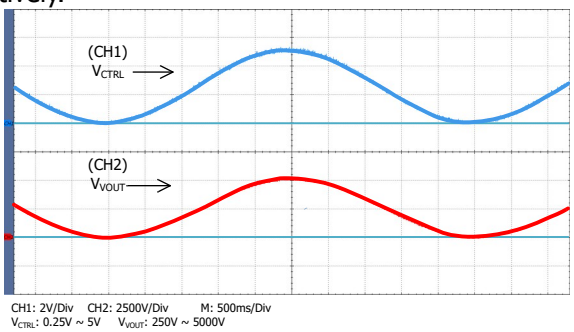



Figure 7A. Sine Wave Modulation ($V_{OUT}$ = 5kV)

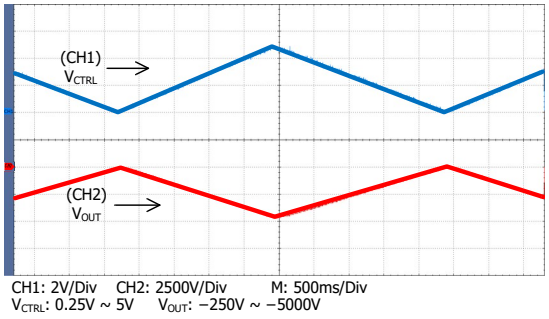



Figure 6B. Triangle Wave Modulation ($V_{OUT}$ = −5kV)

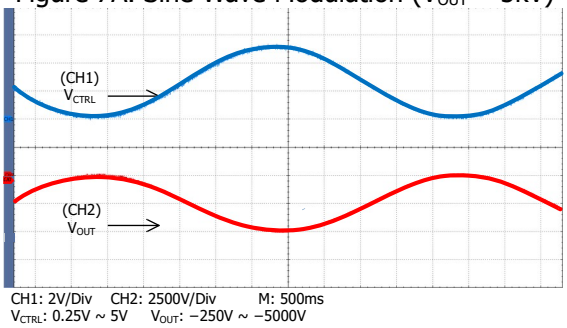



Figure 7B. Sine Wave Modulation ($V_{OUT}$ = −5kV)



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To test the rise and fall times at the output, a step function signal is applied to the CTRL port. The testing results are shown in Figure 8, Figure 9, and Figure 10. As shown in Figure 9 and Figure 10, a square wave of 0.25V ~ 5V, f = 0.10Hz, is applied to CTRL port, the output waveform fall time is measured to be about 100ms and the rise time is about 50ms. These two values are not the same, that is because on the rising trail, the power supply injects a current to the load; while on the falling trail, the best the power supply can do is to stop its output current and let the load resistor drain the output filtering capacitor to a lower voltage, and the draining current is much smaller than the injection current.

**$V_{OUT}$= 5kV**

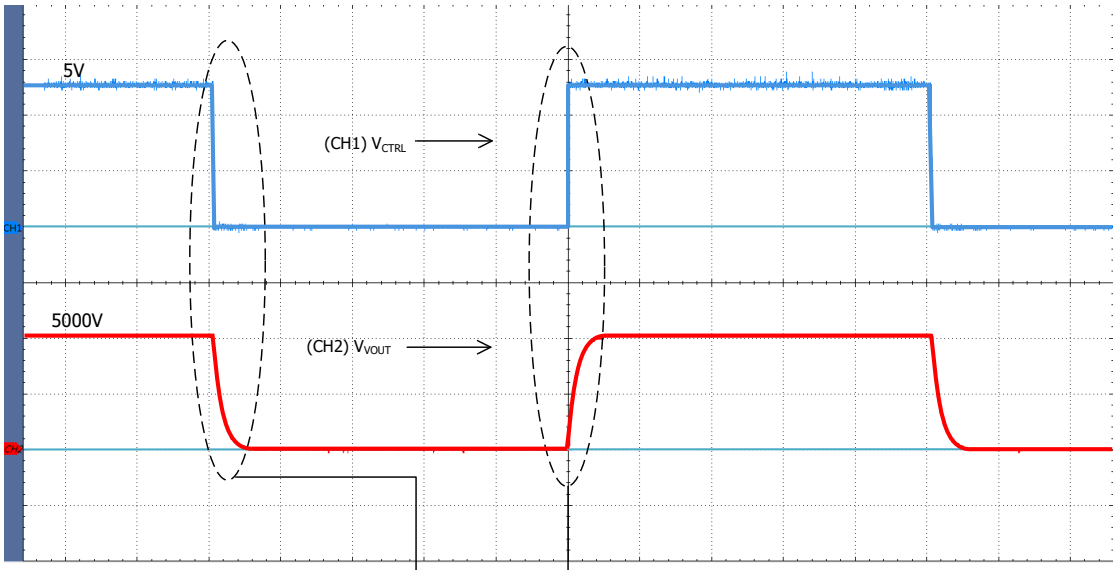



Figure 8A. Input vs. Output Waveforms for Square Wave Control

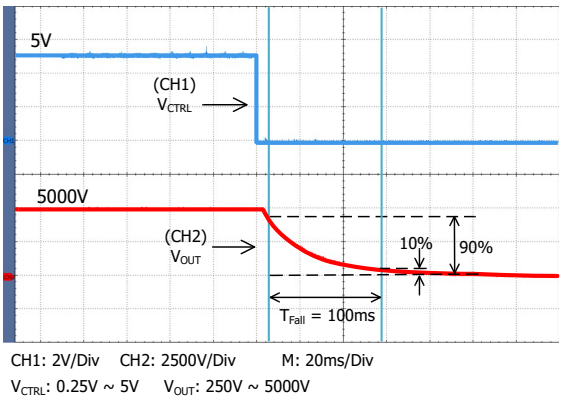



Figure 9A. Falling Trail for Large Signal Response

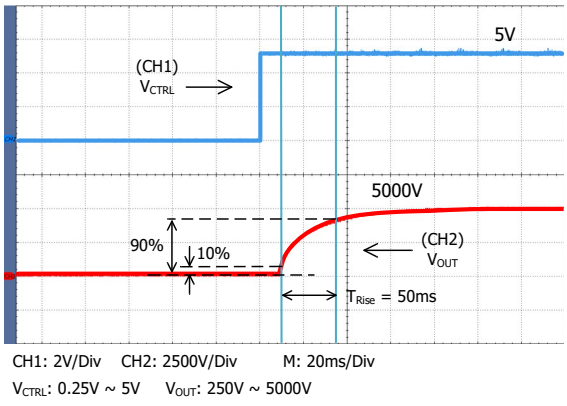



Figure 10A. Rising Trail for Large Signal Response



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**$V_{OUT}$= −5kV**

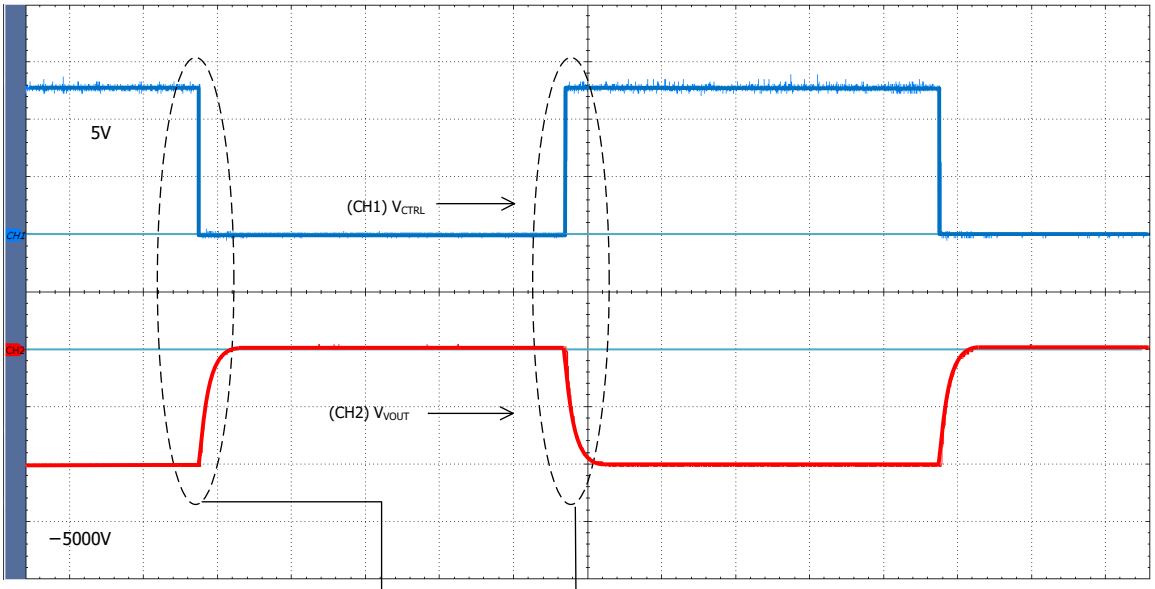



Figure 8B. Input vs. Output Waveforms for Square Wave Control

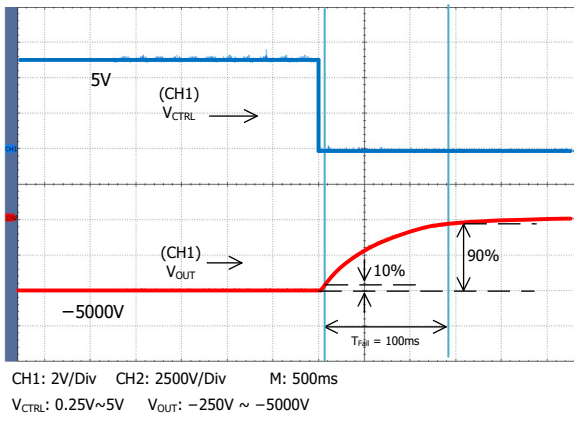



Figure 9B. Falling Trail for Large Signal Response

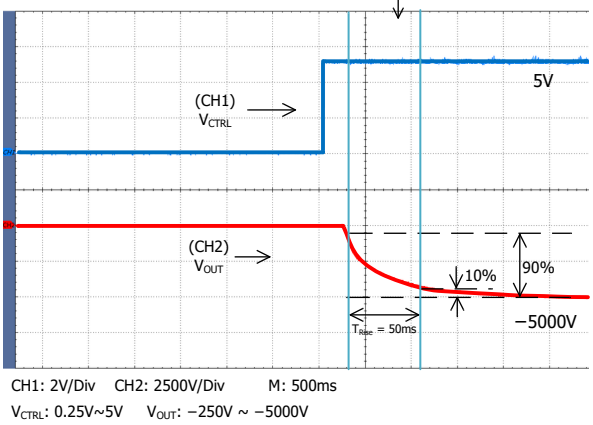



Figure 10B. Rising Trail for Large Signal Response



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# NAMING PRINCIPLE

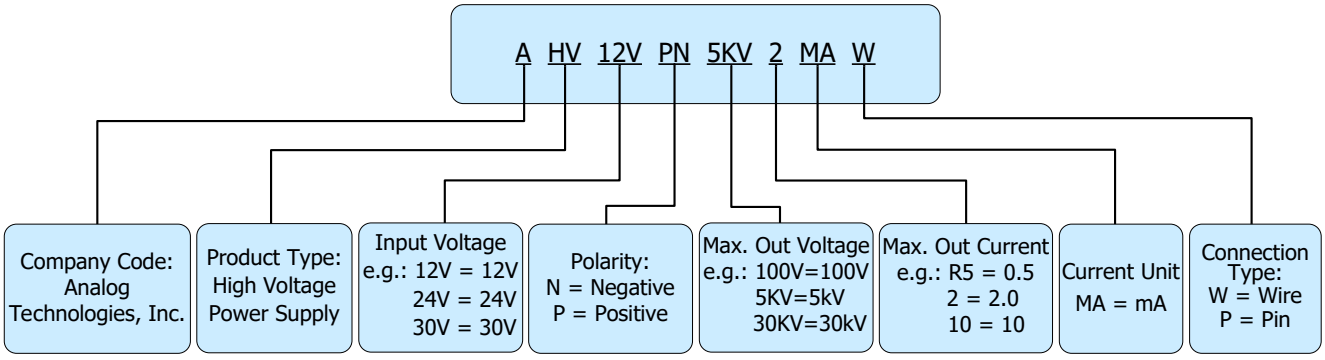



Figure 11. Naming Principle of AHV12VPN5KV2MAW

# DIMENSIONS

**Connecting Lead Wire Sizes and Lengths**

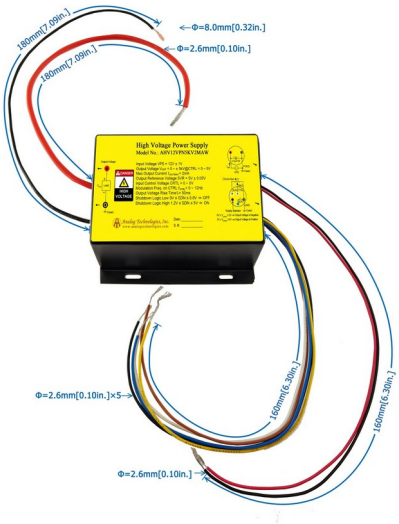



Figure 12. Connecting Lead Wires of AHV12VPN5KV2MAW

| Lead Wires | Diameter | | Length | |
|---|---|---|---|---|
| | mm | inch | mm | inch |
| Thick brown lead wire | 8.0 | 0.32 | 330 ± 1 | 12.99 ± 0.039 |
| Black lead wire | 2.6 | 0.10 | 330 ± 1 | 12.99 ± 0.039 |
| Yellow, red, blue, black and white lead wires | 2.6 | 0.10 | 330 ± 1 | 12.99 ± 0.039 |



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**Outline Dimensions**

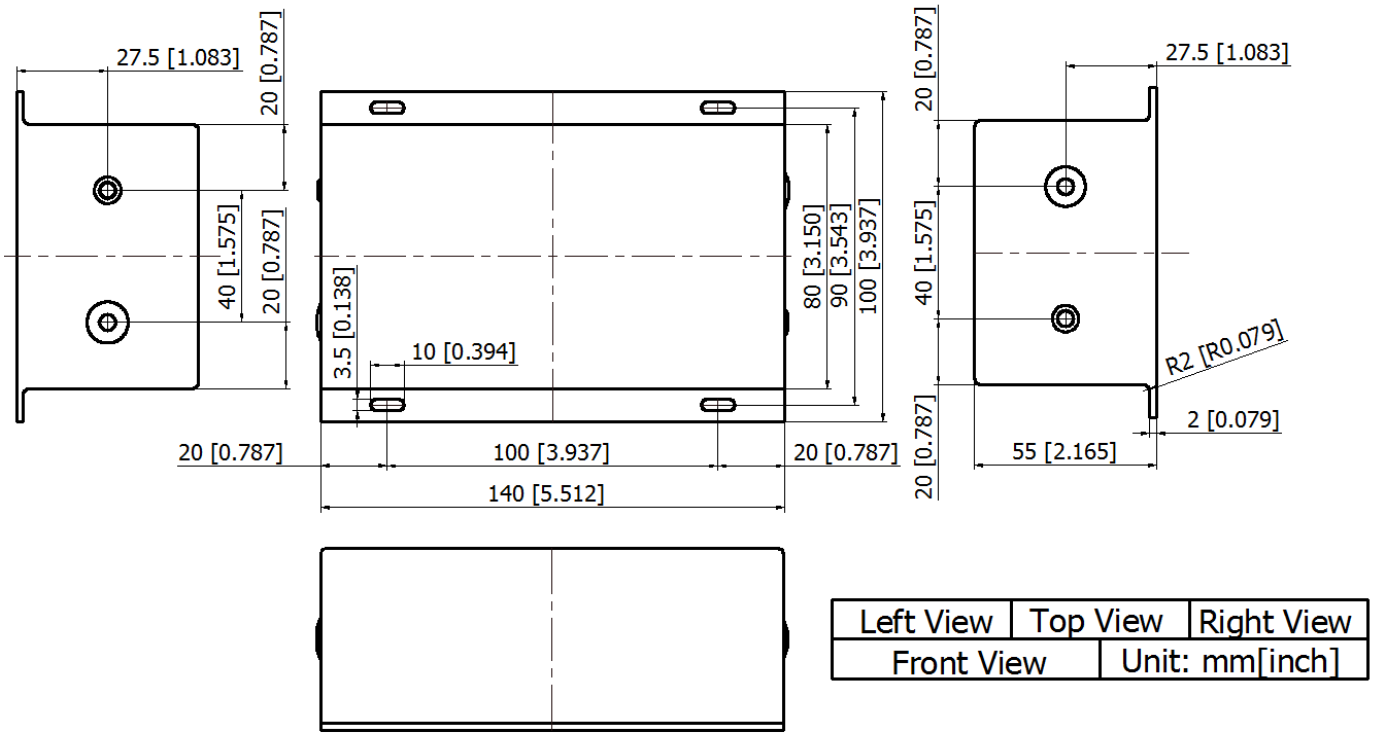



Figure 13. Outline Dimensions

## ORDERING INFORMATION

| Part Number | Buy Now |
|---|---|
| AHV12VPN5KV2MAW | |

## RELATED PRODUCTS

Input Voltage: 12V, Input Control Voltage: 0 to 5V, Efficiency: 70%.

| Part # | Datasheet | Output Voltage (V) | Output Current (mA) | Description | Buy Now* |
|---|---|---|---|---|---|
| AHV12V500V1MAW | | 500 | 1 | Positive 500V 1mA module with lead wires | |
| AHV12V500V2MAW | | 500 | 2 | Positive 500V 2mA module with lead wires | |
| AHV12V500V5MAW | | 500 | 5 | Positive 500V 5mA module with lead wires | |
| AHV12V500V10MAW | | 500 | 10 | Positive 500V 10mA module with lead wires | |
| AHV12V500V20MAW | | 500 | 20 | Positive 500V 20mA module with lead wires | |
| AHV12V500V50MAW | | 500 | 50 | Positive 500V 50mA module with lead wires | |
| AHV12V1KV1MAW | | 1000 | 1 | Positive 1kV 1mA module with lead wires | |



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| Part # | Datasheet | Output Voltage (V) | Output Current (mA) | Description | Buy Now* |
|---|---|---|---|---|---|
| AHV12V1KV2MAW | | 1000 | 2 | Positive 1kV 2mA module with lead wires | |
| AHV12V1KV3MAW | | 1000 | 3 | Positive 1kV 3mA module with lead wires | |
| AHV12V1KV5MAW | | 1000 | 5 | Positive 1kV 5mA module with lead wires | |
| AHV12V1KV10MAW | | 1000 | 10 | Positive 1kV 10mA module with lead wires | |
| AHV12V1KV20MAW | | 1000 | 20 | Positive 1kV 20mA module with lead wires | |
| AHV12V1500V1MAW | | 1500 | 1 | Positive 1.5kV 1mA module with lead wires | |
| AHV12V1500V2MAW | | 1500 | 2 | Positive 1.5kV 2mA module with lead wires | |
| AHV12V1500V3MAW | | 1500 | 3 | Positive 1.5kV 3mA module with lead wires | |
| AHV12V1500V5MAW | | 1500 | 5 | Positive 1.5kV 5mA module with lead wires | |
| AHV12V1500V10MAW | | 1500 | 10 | Positive 1.5kV 10mA module with lead wires | |
| AHV12V2KV1MAW | | 2000 | 1 | Positive 2kV 1mA module with lead wires | |
| AHV12V2KV3MAW | | 2000 | 3 | Positive 2kV 3mA module with lead wires | |
| AHV12V2KV5MAW | | 2000 | 5 | Positive 2kV 5mA module with lead wires | |
| AHV12V2KV10MAW | | 2000 | 10 | Positive 2kV 10mA module with lead wires | |
| AHV12V2500V1MAW | | 2500 | 1 | Positive 2.5kV 1mA module with lead wires | |
| AHV12V2500V3MAW | | 2500 | 3 | Positive 2.5kV 3mA module with lead wires | |
| AHV12V2500V5MAW | | 2500 | 5 | Positive 2.5kV 5mA module with lead wires | |
| AHV12V3KV1MAW | | 3000 | 1 | Positive 3kV 1mA module with lead wires | |
| AHV12V3KV2MAW | | 3000 | 2 | Positive 3kV 2mA module with lead wires | |
| AHV12V3KV3MAW | | 3000 | 3 | Positive 3kV 3mA module with lead wires | |
| AHV12V3KV5MAW | | 3000 | 5 | Positive 3kV 5mA module with lead wires | |
| AHV12V3KV10MAW | | 3000 | 10 | Positive 3kV 10mA module with lead wires | |
| AHV12V4KV1MAW | | 4000 | 1 | Positive 4kV 1mA module with lead wires | |
| AHV12V4KV2R5MAW | | 4000 | 2.5 | Positive 4kV 2.5mA module with lead wires | |
| AHV12V4KV5MAW | | 4000 | 5 | Positive 4kV 5mA module with lead wires | |
| AHV12V5KV1MAW | | 5000 | 1 | Positive 5kV 1mA module with lead wires | |
| AHV12V5KV2MAW | | 5000 | 2 | Positive 5kV 2mA module with lead wires | |
| AHV12V5KV4MAW | | 5000 | 4 | Positive 5kV 4mA module with lead wires | |
| AHV12V6KV1MAW | | 6000 | 1 | Positive 6kV 1mA module with lead wires | |
| AHV12V6KV3MAW | | 6000 | 3 | Positive 6kV 3mA module with lead wires | |
| AHV12V7KV1MAW | | 7000 | 1 | Positive 7kV 1mA module with lead wires | |



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| Part # | Datasheet | Output Voltage (V) | Output Current (mA) | Description | Buy Now* |
|---|---|---|---|---|---|
| AHV12V7KV2MAW | | 7000 | 2 | Positive 7kV 2mA module with lead wires | |
| AHV12V8KV1MAW | | 8000 | 1 | Positive 8kV 1mA module with lead wires | |
| AHV12V8KV2R5MAW | | 8000 | 2.5 | Positive 8kV 2.5mA module with lead wires | |
| AHV12V9KV1MAW | | 9000 | 1 | Positive 9kV 1mA module with lead wires | |
| AHV12V10KV1MAW | | 10,000 | 1 | Positive 10kV 1mA module with lead wires | |
| AHV12V25KV1MAW | | 25,000 | 1 | Positive 30kV 0.7mA module with lead wires | |
| AHV12V30KVR5MAW | | 30,000 | 0.5 | Positive 30kV 0.7mA module with lead wires | |
| AHV12VN500V1MAW | | −500 | 1 | Negative 500V 1mA module with lead wires | |
| AHV12VN500V2MAW | | −500 | 2 | Negative 500V 2mA module with lead wires | |
| AHV12VN500V5MAW | | −500 | 5 | Negative 500V 5mA module with lead wires | |
| AHV12VN500V10MAW | | −500 | 10 | Negative 500V 10mA module with lead wires | |
| AHV12VN500V20MAW | | −500 | 20 | Negative 500V 20mA module with lead wires | |
| AHV12VN500V50MAW | | −500 | 50 | Negative 500V 50mA module with lead wires | |
| AHV12VN1KV1MAW | | −1000 | 1 | Negative 1kV 1mA module with lead wires | |
| AHV12VN1KV2MAW | | −1000 | 2 | Negative 1kV 2mA module with lead wires | |
| AHV12VN1KV3MAW | | −1000 | 3 | Negative 1kV 3mA module with lead wires | |
| AHV12VN1KV5MAW | | −1000 | 5 | Negative 1kV 5mA module with lead wires | |
| AHV12VN1KV10MAW | | −1000 | 10 | Negative 1kV 10mA module with lead wires | |
| AHV12VN1KV20MAW | | −1000 | 20 | Negative 1kV 20mA module with lead wires | |
| AHV12VN1500V1MAW | | −1500 | 1 | Negative 1.5kV 1mA module with lead wires | |
| AHV12VN1500V2MAW | | −1500 | 2 | Negative 1.5kV 2mA module with lead wires | |
| AHV12VN1500V3MAW | | −1500 | 3 | Negative 1.5kV 3mA module with lead wires | |
| AHV12VN1500V5MAW | | −1500 | 5 | Negative 1.5kV 5mA module with lead wires | |
| AHV12VN1500V10MAW | | −1500 | 10 | Negative 1.5kV 10mA module with lead wires | |
| AHV12VN2KV1MAW | | −2000 | 1 | Negative 2kV 1mA module with lead wires | |
| AHV12VN2KV3MAW | | −2000 | 3 | Negative 2kV 3mA module with lead wires | |
| AHV12VN2KV5MAW | | −2000 | 5 | Negative 2kV 5mA module with lead wires | |
| AHV12VN2KV10MAW | | −2000 | 10 | Negative 2kV 10mA module with lead wires | |
| AHV12VN2500V1MAW | | −2500 | 1 | Negative 2.5kV 1mA module with lead wires | |
| AHV12VN2500V3MAW | | −2500 | 3 | Negative 2.5kV 3mA module with lead wires | |
| AHV12VN2500V5MAW | | −2500 | 5 | Negative 2.5kV 5mA module with lead wires | |



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| Part # | Datasheet | Output Voltage (V) | Output Current (mA) | Description | Buy Now* |
|---|---|---|---|---|---|
| AHV12VN3KV1MAW | | −3000 | 1 | Negative 3kV 1mA module with lead wires | |
| AHV12VN3KV2MAW | | −3000 | 2 | Negative 3kV 2mA module with lead wires | |
| AHV12VN3KV3MAW | | −3000 | 3 | Negative 3kV 3mA module with lead wires | |
| AHV12VN3KV5MAW | | −3000 | 5 | Negative 3kV 5mA module with lead wires | |
| AHV12VN3KV10MAW | | −3000 | 10 | Negative 3kV 10mA module with lead wires | |
| AHV12VN4KV1MAW | | −4000 | 1 | Negative 4kV 1mA module with lead wires | |
| AHV12VN4KV2R5MAW | | −4000 | 2.5 | Negative 4kV 2.5mA module with lead wires | |
| AHV12VN4KV5MAW | | −4000 | 5 | Negative 4kV 5mA module with lead wires | |
| AHV12VN5KV1MAW | | −5000 | 1 | Negative 5kV 1mA module with lead wires | |
| AHV12VN5KV2MAW | | −5000 | 2 | Negative 5kV 2mA module with lead wires | |
| AHV12VN5KV4MAW | | −5000 | 4 | Negative 5kV 4mA module with lead wires | |
| AHV12VN6KV1MAW | | −6000 | 1 | Negative 6kV 1mA module with lead wires | |
| AHV12VN6KV3MAW | | −6000 | 3 | Negative 6kV 3mA module with lead wires | |
| AHV12VN7KV1MAW | | −7000 | 1 | Negative 7kV 1mA module with lead wires | |
| AHV12VN7KV2MAW | | −7000 | 2 | Negative 7kV 2mA module with lead wires | |
| AHV12VN8KV1MAW | | −8000 | 1 | Negative 8kV 1mA module with lead wires | |
| AHV12VN8KV2R5MAW | | −8000 | 2.5 | Negative 8kV 2.5mA module with lead wires | |
| AHV12VN9KV1MAW | | −9000 | 1 | Negative 9kV 1mA module with lead wires | |
| AHV12VN10KV1MAW | | −10000 | 1 | Negative 10kV 1mA module with lead wires | |
| AHV12VN25KV1MAW | | −25000 | 1 | Negative 25kV 1mA module with lead wires | |
| AHV12VN30KVR5MAW | | −30000 | 0.5 | Negative 30kV 0.5mA module with lead wires | |

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