

±0.3kV - ±3kV, 3W

HIGH SPEED, HIGH VOLTAGE AMPLIFIER SERIES

 Matsusada Precision

- High speed response
- All solid state
- Various types of output wave forms according to the input wave
- Small size



AP / AS provides fast response to 250Hz -12kHz and produces high voltage output in sine waves, triangle waves, saw tooth waves and square waves in proportion to the input wave type. 10 different models are available in this series as standard units.

Output Voltage	Current	Model	Frequency Response (-3dB)*	Case No.	Model	Frequency Response (-3dB)		Slew Rate (full scale)	Case No.
						full scale	10% of full scale		
-0.3 - +0.3kV	10mA	AP-0.3B10	DC - 2kHz	C6A	AS-0.3B10	DC - 12kHz	DC - 30kHz	12V/μs	C6A
-0.6 - +0.6kV	5mA	AP-0.6B5	DC - 2kHz		AS-0.6B5	DC - 6kHz	DC - 20kHz		
-1 - +1kV	3mA	AP-1B3	DC - 1kHz	C6E	AS-1B3	DC - 3.5kHz	DC - 12kHz		C6E
-1.5 - +1.5kV	2mA	AP-1.5B2	DC - 500Hz		AS-1.5B2	DC - 2.5kHz	DC - 10kHz		
-3 - +3kV	1mA	AP-3B1	DC - 250Hz	C7	AS-3B1	DC - 1.5kHz	DC - 5kHz		C7

* The frequency response of AP is the same by low amplitude and by full scale

• SPECIFICATIONS

Input Voltage/Current: 24V_{DC} ±5% / 0.6A typ.
 Output Control: External control voltage
 Vcon-in -10V - +10V
 (input impedance: ≥10kΩ)
 Regulation: Line ±0.1% (±5% line change)
 Load 0.1% (10%-100% load change)
 Ripple: ≤ 0.025% rms
 Stability: 0.016% / h typ.
 Protection: Protection against input reverse connection and intermittent output short circuit
 Operating Temp.: 0°C - +45°C
 Storage Temp.: -20°C - +60°C
 I/O Terminals: Input: Pin terminal
 Output: High voltage lead wire
 500mm (1.6feet)

* Offset voltage : within 0.5% of rated output at Vcon-in = 0V
 * Specifications are subject to change without notice.

• DIMENSIONS mm (inch)

Case No.	W	L	H	Weight (g) approx.
C6A	100 (3.94)	180 (7.09)	38 (1.5)	1400
C6E	120 (4.73)	205 (8.07)	43 (1.7)	2100
C7	152 (5.99)	205 (8.07)	43 (1.7)	2600

- OPTIONS**

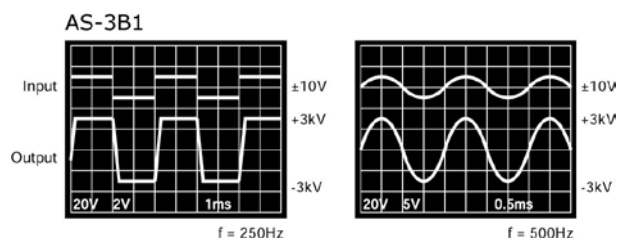
- L2** OUTPUT VOLTAGE MONITOR

V_{OUT}	-0.3kV - +0.3kV	-0.6kV - +0.6kV to -3kV - +3kV
Monitor / V_{OUT}	1V / 0.1kV	1V / 1kV

Please use a voltage meter which input impedance is $\geq 10M\Omega$.
(Accuracy: $\pm 2.5\%$ / Full scale)

* When ordering, please suffix L Mark (option mark)
to the model number. (e.g. AS-0.3B10-L2)

- RESPONSE WAVEFORM**



- REMARKS**

These units do not bear the CE-mark. They are intended to be used as components within systems. The customer is responsible for keeping the applicable EMC- and safety-standards