

Bipolar Amplifier**Output**

Output Voltage:	- 15 V to + 60 V
Maximum Output Current:	As-161-30: DC: ± 15 Adc Peak Current: ± 30 Apeak As-161-60: DC: ± 30 Adc Peak Current: ± 60 Apeak
Withstanding Capacitance:	100 μ F or less (The amplifier is stable operation even if connecting a capacitor with capacitance of up to 100 μ F)
Output Impedance:	10m Ω or less [100m Ω + 0.4 μ H] or less (at a frequency of over 500Hz)
Output DC Bias Addition:	-15 V to + 60 V (with 10-turn potentiometer)
Output Offset Voltage:	Can be adjusted to zero using offset trimmer
Slew Rate Limit:	5-point switching among 0.1 V/ μ s, 0.3 V/ μ s, 1 V/ μ s, 3 V/ μ s, and OFF.
Output Form:	Unbalance. Common is grounded to the chassis.

Input

Input Impedance:	100 k Ω \pm 10 %
Input Voltage:	- 1.5 V to + 6 V
Input Form:	Unbalance. Common is grounded to the chassis.

Amplification

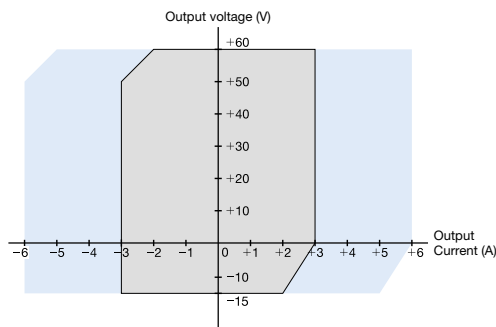
Gain:	4-point switching among 2, 5, 10, and 20 times.
Voltage Gain – Frequency Response:	± 3 dB (With pure resistance load and at DC to 150 kHz)

Output Monitor

Voltage Monitor Signal Output:	Output gain: 1/10 of output voltage Output connection plug: BNC receptacle
Current Monitor Signal Output:	Output gain: 0.1 V/A Output connection plug: BNC receptacle
Voltage Digital Display:	(Displays DC component) Displaying output voltage range: - 15.00 V to + 60.00 V Displaying resolution: 10 mV
Current Digital Display:	(Displays DC component) Displaying output current range: As-161-30: - 15.00 A to + 15.00 A As-161-60: - 30.00 A to + 30.00 A Displaying resolution: 10 mA

Generals

Power Requirements:	Automatic switching, AC 90 V to 132 V and AC 180 V to 230 V 48 Hz to 62 Hz
Power Consumption:	As-161-30: 1500 VA (At output of 60 V/15 A) As-161-60: 3000 VA (At output of 60 V/30 A)
Ambient Temperature/Humidity Range:	Operation: 0 $^{\circ}$ C to + 40 $^{\circ}$ C, 5 to 85 % RH Storage: - 20 $^{\circ}$ C to + 50 $^{\circ}$ C, 5 to 95 % RH
External Dimension (mm):	As-161-30: 430 (W) \times 354.5 (H) \times 599 (D) As-161-60: 430 (W) \times 577 (H) \times 599 (D)
Weight:	As-161-30: Approx. 36 kg As-161-60: Approx. 64 kg

Area of Voltage and Current that can be output from Bipolar Amplifier

* indicates DC current range, and indicates peak current range

The values shall be given as follows:

As-161-30: Multiply the value on the current axis by 5 A

As-161-60: Multiply the value on the current axis by 10 A

Waveform Generators/Software

● Multifunction Synthesizer **WAVE FACTORY + Arbitrary Waveform Editor 0105**

Using the Multifunction Synthesizer and 0105 allows you to create and generate any waveform you want on your PC. In addition, the waveform data recorded with the digital oscilloscope can be loaded and generated.

- The description given in this catalogue is based on the information as of February8, 2005.
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