# AC6800B Series Basic AC Power Sources





#### Because You Can't Afford Downtime

Engineer reliability into your designs with a new basic AC source alternative from Keysight and test with confidence that your products will perform as designed...

Maximize your uptime with the new Keysight Technologies, Inc. AC6800B Series basic AC power sources, and test your devices with confidence your products will perform as designed – even if voltage from the AC power grid is fluctuating or you are facing extreme inrush current or transient spikes.

#### Keysight's new AC6800B Series basic AC sources offer the quality and capability you need:

- Intuitive user interface If you've used a Keysight DC power supply, you'll feel right at home with these AC sources.
- Flexible I/O LAN/LXI Core and USB (standard), and GPIB (optional). And you can access and control the source remotely via a standard browser.
- Low cost of ownership backed with global support and the longest standard warranty in the industry.

Models up to 4000 VA are available to meet your basic AC source requirements.

## Models and Options

Models	
AC6801B	Basic AC power source, 500 VA, 310 V, 2.5 A
AC6802B	Basic AC power source, 1000 VA, 310 V, 5 A
AC6803B	Basic AC power source, 2000 VA, 310 V, 10 A
AC6804B	Basic AC power source, 4000 VA, 310 V, 20 A
Options	
AC68BALGU	Upgrade - user-installable analog interface board for AC6800B Series AC sources
AC68BFIU	Upgrade - user-installable inhibit interface board for AC6800B Series AC sources
AC68GPBU	Upgrade - user-installable GPIB interface board for AC6800B Series AC sources
AC68BRAC3	Rack mount flange kit for AC6801B, AC6802B, AC6803B
AC68BRAC6	Rack mount flange kit for AC6804B

## A New Basic AC Power Source Alternative for Bench and Production-Line Testing

Whether you want to manually control your basic AC source on your R&D bench or program it to use in a fully automated test rack, it must provide stable, dependable AC power to your DUT.



Choose from models up to 4000 VA, all with 0 to 310 Vrms and 40 to 500 Hz capability.

You can use the AC6800B Series basic AC power sources for:

- Simple tasks such as simulating global AC power conditions
- Testing varying frequency and voltage combinations to simulate real-world conditions
- Power factor correction testing and similar AC + DC applications (for example, test your input circuitry to look at ripple voltage)

AC6800 series basic AC sources						
	AC6801B	AC6802B	AC6803B	AC6804B		
Phases	Single-phase		·			
Maximum output power	500 VA	1000 VA	2000 VA	4000 VA		
AC output mode						
Voltage ranges (low/high range)	155 Vrms/310 Vrms					
Maximum rms current (low/high range)	5 A/2.5 A	10 A/5 A	20 A/10 A	40 A/20 A		
Frequency	40 to 500 Hz	40 to 500 Hz				
DC output mode						
Voltage ranges (low/high range)	219 V/438 V					
Maximum current (low/high range)	4 A/2 A	8 A/4 A	16 A/8 A	32 A/16 A		
Power capacity	400 W	800 W	1600 W	3200 W		
Measurements & I/O	Measurements & I/O					
Measurements	Voltage, current, pow	Voltage, current, power, AC, DC and AC+DC				
Transients	Basic transient capab	Basic transient capability via optional analog card (Option: AC68BALGU)				
1/0	LAN/LXI Core with re	LAN/LXI Core with remote Web interface				
	USB					
	GPIB (Option: AC68GI	GPIB (Option: AC68GPBU)				

#### Need higher-performance capabilities?

If you need to generate and analyze more-sophisticated waveforms, harmonics or more complex transient signals, the Keysight 6800C Series AC power source/analyzers with built-in arbitrary waveform generator give you the ability to source and analyze more-complex AC applications up to 1750 VA.

See www.keysight.com/find/ACSources for more information.



### Easy Operation with an Intuitive, Time-Tested User Interface

The AC6800B's simple user interface allows you to easily access and view setup and measurement information directly from the front panel or programmatically. And you won't need to spend a lot of time learning to use the interface. If you've used an Keysight DC power supply, you'll feel right at home with the AC6800B Series basic sources.

## Set your display to show just the information you want

Simply click through the metering options to modify the display to show your measurement priorities and increasing levels of details.

The information displayed indicates both the setting levels and the selected output coupling mode or configuration to allow you to control the AC source programmatically.

Measurements may be AC coupled, DC coupled, or AC+DC coupled independent of the output coupling mode.

Whether you use the front panel or control your AC source programmatically via SCPI (Standard Commands for Programmable Instruments), you can fully access all features.

## Flexible I/O to meet your needs

Keysight AC6800B Series basic AC power sources come with LAN/LXI Core and USB interfaces (standard). For your legacy applications, an optional GPIB interface is also available that you can easily install yourself.

# Set up, monitor and operate your AC6800B sources remotely

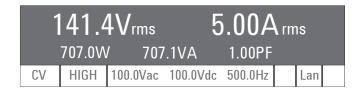
You can use the built-in Web server to remotely access and control your AC6800B Series AC sources via a standard browser. This control goes above and beyond the LXI Core specification, giving you the ability to monitor and control the instrument from anywhere.

# Add more flexibility with an optional analog input board to add basic transient signals

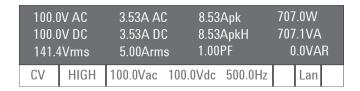
If you want to generate non-sinusoidal output waveforms or output transient events, use the optional analog input, which allows you to create analog waveforms using your function generator. See page 12 to learn more about the analog card's characteristics. The analog input option is also useful in situations where you want to control the output voltage level with an external DC control signal.



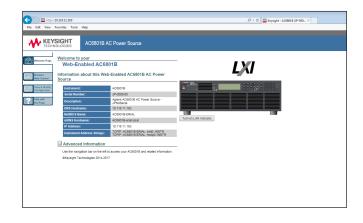
See basic voltage and current measurement information.



See voltage, current and power measurement information.



See full details of all measurement information available.



# Low Cost of Ownership – Backed with Global Support and the Industry's Longest Standard Warranty

In manufacturing test applications, the upfront cost of your power supplies is just one factor in the total cost of test. Keysight's new AC6800B Series sets a new standard for reliability, so you can expect the lowest overall cost of ownership. You can:

- Increase your confidence in your AC source uptime. With the industry's longest standard warranty for an AC power source, you'll see a lower total cost of ownership and fewer budgetary surprises.
- Take advantage of Keysight's network of global service and support centers. You can easily move AC6800B Series sources between global locations. If you ever need a repair, Keysight's global support network offers the convenience of nearby support.
- Easily document calibration. Each AC6800B Series AC source ships with a printed copy of the commercial calibration certificate along with all the test data obtained from the calibration cycle.

# Example applications where AC6800B basic AC sources are ideal

## Testing universal power supplies designed to work globally

The AC6800 AC source can be used to output the voltages and frequencies found around the world. The AC6800 has many built-in measurements, it can accurately measure power in Watts, VA, and phase angle. Inrush current can be measured consistently by setting the phase angle at which the voltage turns on

#### Testing avionic electronics designed for 400 Hz

If you need single-phase 400 Hz power on the bench to check avionic electronics the AC6800B series can supply clean power. The AC6800 series offers a wide variety of input voltages and frequencies and can provide 500 VA to 4 kVA. It is currently used in development, manufacturing, and repair of avionic electronics.

Testing commercial light drivers and ballasts LED drivers and fluorescent ballasts can be tested up to 310 VAC which ideal for testing electronics to 277 VAC ± 10%. In manufacturing, many ballasts can be verified in parallel with an AC source capable of 500 VA to 4 kVA. An AC6800B series is used to output steady voltage allowing the ballast to be tested for efficiency and output regulation.



#### **Definitions**

#### Specifications

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0 to 40 °C after a 30-minute warm-up period. Specifications apply at the output terminals. Accuracy specifications are warranted for three years.

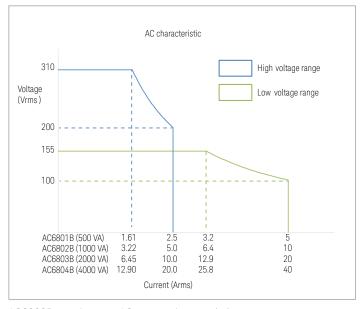
#### Supplemental characteristics/typical values

Supplemental characteristics are not warranted but are descriptions of performance determined either by design or by type testing. All supplemental characteristics are typical unless otherwise noted.

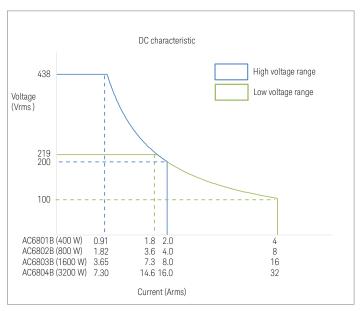
## Specifications

Model	AC6801B	AC6802B	AC6803B	AC6804B			
Output ratings for AC mode (155 V/310 V range)							
Rated voltage range	1 to 155 Vrms/2	1 to 155 Vrms/2 to 310 Vrms					
Voltage setting accuracy <sup>1</sup>	0.35% of full sca	le					
Output phases	Single	Single					
Maximum rms current <sup>2</sup>	5 A/2.5 A	10 A/2.5 A	20 A/10 A	40 A/20 A			
Load power factor capability	0 to 1 (leading or	0 to 1 (leading or lagging)					
Maximum power	500 VA	1 kVA	2 kVA	4 kVA			
Frequency setting range	40 to 500 Hz	40 to 500 Hz					
Frequency accuracy	± 0.02%	± 0.02%					
Output ratings for DC mode (155 V/310 V ran	ge)						
Rated voltage range	1.4 to 219 V/2.8	1.4 to 219 V/2.8 to 438 V					
Voltage setting accuracy 3	0.3% of full scale	0.3% of full scale/0.25% of full scale					
Maximum rms current <sup>4</sup>	4 A/2 A	8 A/4 A	16 A/8 A	32 A/16 A			
Maximum power	400 W	800 W	1600 W	3200 W			

- 1. For an output voltage of 13.5 to 155 V/27 to 310 V, no load, and 23  $\pm$  5 °C.
- 2. For an output voltage of 1 to 100 V/2 to 200 V. Limited by the output power when the output voltage is 100 to 155 V/200 to 310 V.
- 3. For an output voltage of 19 to 219 V/38 to 438 V, no load, and 23  $\pm$  5 °C.
- 4. For an output voltage of 1.4 to 100 V/2.8 to 200 V. Limited by the output power when the output voltage is 100 to 219 V/200 to 438 V.







AC6800B steady-state DC output characteristic.

## Specifications (Continued)

Model		AC6801B	AC6802B	AC6803B	AC6804B		
Output voltage stabi	lity (155 V/310	V range)	•	'	'		
Load regulation <sup>1</sup>		For 40 to 100 Hz: ± 0.15 V/±	: 0.3 V				
		For other frequencies: ± 0.5	V/± 1 V				
Measurements 2, 3 (1	55 V/310 V ran	ge)					
Voltage accuracy 4	RMS, AC, DC	For 45 to 65 Hz and DC: ± (0	0.5% of reading + 0.35 V/0.7 \	/)			
		Typical: ± (0.25% of reading	Typical: ± (0.25% of reading + 0.15 V/0.3 V)				
		For all other frequencies: ± (0.7% of reading + 1.0 V/2.0 V)					
Current accuracy 5, 6	RMS, AC, DC	For 45 to 65 Hz and DC:	For 45 to 65 Hz and DC:	For 45 to 65 Hz and DC:	For 45 to 65 Hz and DC:		
		± (0.5% of reading +	± (0.5% of reading +	± (0.5% of reading +	± (0.5% of reading +		
		0.02 A/0.01 A)	0.04 A/0.02 A)	0.08 A/0.04 A)	0.16 A/0.08 A)		
		Typical: ± (0.25% of	Typical: ± (0.25% of	Typical: ± (0.25% of	Typical: ± (0.25% of		
		reading + 0.02 A/0.01 A)	reading + 0.04 A/0.02 A)	reading + 0.08 A/0.04 A)	reading + 0.16 A/0.08 A)		
		For all other frequencies:	For all other frequencies:	For all other frequencies:	For all other frequencies:		
		± (0.7% of reading +	± (0.7% of reading +	± (0.7% of reading +	± (0.7% of reading +		
		0.04 A/0.02 A)	0.08 A/0.04 A)	0.16 A/0.08 A)	0.32 A/0.16 A)		
AC power accuracy	W <sub>AC</sub>	± (2% of reading + 0.5 W)	± (2% of reading + 1 W)	± (2% of reading + 2 W)	± (2% of reading + 4 W)		
$(45 \text{ to } 65 \text{ Hz})^7$		Typical:	Typical:	Typical:	Typical:		
		± (1% of reading + 0.5 W)	± (1% of reading + 1 W)	± (1% of reading + 2 W)	± (1% of reading + 4 W)		
DC power accuracy 7	W <sub>DC</sub>	± (2% of reading + 0.5 W +	± (2% of reading + 1 W +	± (2% of reading + 2 W +	± (2% of reading + 4 W +		
		0.02 W/0.01 W per VDC)	0.04 W/0.02 W per VDC)	0.08 W/0.04 W per VDC)	0.16 W/0.08 W per VDC)		
		Typical:	Typical:	Typical:	Typical:		
		$\pm$ (1% of reading + 0.5 W +	± (1% of reading + 1 W +	± (1% of reading + 2 W +	± (1% of reading + 4 W +		
		0.01 W/0.005 W per VDC)	0.02 W/0.01 W per VDC)	0.04 W/0.02 W per VDC)	0.08 W/0.04 W per VDC)		

- 1. For an output voltage of 80 to 155 V/160 to 310 V, a load power factor of 1, a step change in output current from 0 A to maximum rms current (or its reverse) using the output terminal on the rear panel.
- RMS, AC, DC, and power (W) are derived using the following equations:
  - a. RMS =  $\sqrt{\frac{1}{N}} \sum (instantaneous \ voltage \ or \ current)^2$
  - $DC = \frac{1}{N} \sum (instantaneous \ voltage \ or \ current)$
  - $AC = \sqrt{RMS^2 DC^2}$
  - $W_{TOTAL} = \frac{1}{N} \sum (instantaneous \ voltage \ x \ instantaneous \ current)$
  - e.  $W_{DC} = V_{DC} \times I_{DC}$
  - f.  $W_{AC} = W_{TOTAL} W_{DC}$
- Further measurement information:
  - Sample window: 100 ms to 125 ms for AC or AC+DC output coupling (an integer multiple of the output waveform period), 125 ms for DC output.
  - Update interval: Approximately 3 times/sec, averaging up to 16 intervals when averaging is turned on.
  - Peak current value returns the maximum of the absolute values of the instantaneous current samples in a single measurement interval (averaging off).
  - d. The meter display is set to "RMS" in AC+DC meter coupling, "AC" in AC meter coupling, and "DC" in DC meter coupling. AC mode: For an output voltage of 13.5 to 155 V/27 to 310 V and 23  $\pm$  5 °C.
- DC mode: For an output voltage of 19 to 219 V/38 to 438 V and 23  $\pm$  5 °C.
- For a waveform of crest factor 3 or less, an output current in the range of 5 to 100% of the maximum rms current, and 23 ± 5 °C.
- Peak current measurement accuracy information available in "Supplemental Characteristics" section.
- For an output voltage of 50 V or greater, an output current in the range of 10 to 100% of the maximum rms current, DC or an output frequency of 45 to 65 Hz, a load power factor of 1, and 23 ± 5 °C.

## Supplemental Characteristics

Model	AC6801B	AC6802B	AC6803B	AC6804B		
Input rating	'	•	'	'		
Nominal input rating	100 to 120 Vrms/200 to	100 to 120 Vrms/200 to 240 Vrms, 50 Hz or 60 Hz, single-phase				
Input voltage range	90 to 132 Vrms/180 to 2	90 to 132 Vrms/180 to 264 Vrms (auto detected when the power is turned on)				
Input frequency range	47 Hz to 63 Hz					
Apparent power	800 VA or less	1600 VA or less	3200 VA or less	6400 VA or less		
Power factor <sup>1</sup>	0.9 (typical)					
Input current	8 A/4 A or less	16 A/8 A or less	32 A/16 A or less	64 A/32 A or less		
	(at 100 V/200 V)	(at 100 V/200 V)	(at 100 V/200 V)	(at 100 V/200 V)		
	6.7 A/3.5 A or less	13.4 A/7.0 A or less	26.8 A/14.0 A or less	53.6 A/28.0 A or less		
	(at 120 V/230 V)	(at 120 V/230 V)	(at 120 V/230 V)	(at 120 V/230 V)		
Output ratings for AC mode (155 V/3	10 V range)					
Programmable voltage range	0 to 157.5 Vrms/0 to 315	5 Vrms				
Voltage setting resolution	0.1 V					
Frequency setting resolution	0.1 Hz					
Voltage THD <sup>2</sup>	0.5% or less					
Efficiency <sup>3</sup>	70% or greater					
Maximum repetitive peak current <sup>4</sup>	15 A/7.5 A	30 A/15 A	60 A/30 A	120 A/60 A		
Output ratings for DC mode (155 V/3	10 V range)					
Programmable voltage range	-222.5 to 222.5 V/-445	to 445 V				
Voltage setting resolution	0.1 V					
Maximum repetitive peak current <sup>4</sup>	12 A/6 A	24 A/12 A	48 A/24 A	96 A/48 A		
Ripple noise <sup>5</sup>	0.7 Vrms/1.4 Vrms (typic	cal)				
Output voltage stability						
Temperature coefficient <sup>6</sup>	100 ppm/°C (typical)					
Output voltage response time <sup>7</sup>	150 us (typical)					
Line regulation <sup>8</sup>	± 0.15% of full scale					
Measurements (135 V/270 V range)	•					
Voltage measurement resolution	0.1 V					
Current measurement resolution	0.01 A					
Peak current measurement accuracy 9	± (2% of reading + 0.1	± (2% of reading +	± (2% of reading +	± (2% of reading +		
	A/0.05 A) (typical)	0.2 A/0.1 A) (typical)	0.4 A/0.2 A) (typical)	0.8 A/0.4 A) (typical)		
Power measurement resolution	0.1 W, 1 W (for 1000 W	or more)				

- 1. For an output voltage of 100 V/200 V (155 V/310 V range), maximum rms current, and a load power factor of 1.
- 2. At an output voltage of 50 to 155 V/100 to 310 V, a load power factor of 1, and in AC mode.
- 3. For AC mode, at an output voltage of 100 V/200 V, maximum rms current, load power factor of 1, and an output frequency of 40 to 500 Hz.
- 4. For a periodic, pulsed current waveform with the total rms current under the specified maximum rms current.
- 5. For 5 Hz to 1 MHz components measured at the output terminals on the rear panel.
- 6. For an output voltage of 100 V/200 V, an output current of 0 A, and within the operating temperature range.
- 7. For DC mode, an output voltage of 100 V/200 V, a load power factor of 1, and settling within a band of ± 1% about nominal, under a step change in output current from 0A to the maximum rms current (or its reverse).
- 8. For line voltage and frequency changes within the rated range.
- 9. For a waveform of crest factor 3 or less, an output current in the range of 5 to 100% of the Maximum repetitive peak current, and 23 ± 5 °C.

Model	AC6801B	AC6802B	AC6803B	AC6804B		
Common		'	'	'		
Isolation to ground	310 Vrms or 438 VDC					
Insulation resistance	500 Vdc, 30 MΩ or more					
(Between input and chassis, output and						
chassis, input and output)						
Withstand voltage	1.5 kV AC for 1 minute					
(Between input and chassis, output and						
chassis, input and output)						
Earth continuity	25 A AC, 0.1 Ω or less					
Electromagnetic compatibility (EMC) 1		ments of the following directive	ve and standards			
	EMC Directive 2004/108/	EC				
	EN 61326-1					
	Under following condition	s: The maximum length of all of	connecting cables and wires	to the unit is less than 3 m.		
Safety	Complies with the require	ments of the following directive	ve and standards			
	Low Voltage Directive 200	06/95/EC				
	EN 61010-1					
	Class I					
	Pollution Degree 2					
Environment						
Operating environment	Indoor use, Overvoltage C	Category II				
Operating temperature and humidity	0 to 40 °C (32 to 104 °F),	20% to 80% R.H. non-conden	sing			
range						
Storage temperature and humidity	–10 to 60 °C (14 to 140 °F	), 90% or less R.H. non-conde	ensing			
range						
Altitude	Up to 2000 m					
Acoustic noise	< 70 dbA					
Physical	1					
Dimensions (Depth includes Barrier	429 x 128 x 368 mm	429 x 128 x 368 mm	429 x 128 x 583.5 mm	429 x 262 x 613.5 mm		
Block Safety Cover)	16.9 x 5.0 x 14.5"	16.9 x 5.0 x 14.5"	16.9 x 5.0 x 23"	16.9 x 10.3 x 24.2"		
Weight	Approx. 8 kg (17.64 lb)	Approx. 11 kg (24.25 lb)	Approx. 15 kg (33.07 lb)	Approx. 31 kg (68.34 lb)		
Input terminal	IEC 320 inlet	M4 terminal block	M6 terminal block	M6 terminal block		
Output terminal	M4 terminal block	M4 terminal block	M4 terminal block	M6 terminal block		
LAN interface	l.=== === ==					
Hardware	IEEE 802.3 100Base-TX or 10Base-T Ethernet					
	Complies with LXI Specification version 1.4 Class C					
	IPv4, RJ-45 connector2					
Communication protocol	VXI-11, HiSLIP, or SCPI-R.		ID I			
Program message terminator		END during reception, LF + EN	<del>-</del>			
Hen	SCPI-RAW: LF during reco	eption, LF during transmission				
USB interface	10 1: :11 1100 0 0 0					
Hardware	Complies with USB 2.0; Data rate: 12 Mbps (full speed)					
Program message terminator	LF or EOM during reception, LF + EOM during transmission					
Device class						
GPIB interface (Option AC68GPBU)	Canadian with IEEE Old (00.1.1070					
Hardware	Complies with IEEE Std 488.1-1978					
Dragger manager to the state of	SH1, AH1, T6, L4, SR1, RL1, PP0, DC1, DT1, C0, E1  LF or EOI during reception, LF + EOI during transmission					
Program message terminator	<del>                                     </del>	ı, LF + EUI during transmissioi	1			
Primary address	1 to 30					

<sup>1.</sup> Only on models that have CE marking on the panel. AC68xx models will not be in compliance with EMC limits unless the ferrite core is attached on the load wires.

Model			AC6801B	AC6802B	AC6803B	AC6804B		
Common interfa	ace specifications							
Software protocol			IEEE Std 488.2-199	2				
Command language			SCPI Specification 1	999.0				
Save/recall state	es		Save and recall up to	o ten instrument stat	es in non-volatile memo	ory		
Accessories inc	cluded							
Power cord			1 standard power cord 1 length: Approx. 2.5 m	Not included	Not included	Not included		
Ferrite core			1					
Cable tie	-		1					
Analog progran	nming interface (Option	AC68BALGU)						
Input	Maximum voltage	,	± 15 V					
'	Connector		BNC					
	Impedance		$10 \text{ k}\Omega \pm 5\%$ (unbalanced)					
	Isolation voltage		± 100 Vmax					
EXT-AC mode <sup>2</sup>	Input voltage range		0 V to +10 V (DC)					
	Voltage amplification ratio (155 V/310 V		15.5x/31x (Outputs an AC voltage of 0 V to 155 V/0 V to 310 V with respect to a DC voltage					
	range)		input of 0 V to 10 V)					
	Frequency setting rang	е	40 Hz to 500 Hz					
	Other output rating specifications		Same as the specifications of the output rating for AC mode					
EXT-DC mode	Input voltage range When ATT is OFF		0 V to ± 2.19 Vpeak (0 V to 1.55 Vrms sine wave)					
		When ATT is ON	0 V to ± 10 V (DC)					
	Input frequency range	When ATT is OFF <sup>3</sup>	40 to 500 Hz (sine w	vave)/40 to 100 Hz (re	ectangular wave)/DC			
	Frequency response	When ATT is OFF	-0.3 dB at 500 Hz with respect to 55 Hz (typical)					
	Voltage amplification	When ATT is OFF						
	ratio (155 V/310 V		(Outputs an AC voltage of 0 to 155 V/O to 310 V with respect to a AC voltage input of					
	range)		0 to 1.55 V)					
		When ATT is ON	21.9x/43.8x					
				to a DC voltage input of				
			0 to ± 10 V)					
	Other output rating specifications		Same as the specifications of the output rating for DC mode					
Output voltage distortion ratio <sup>4</sup>			Main specifications + 0.5% or less					
Output voltage temperature coefficient			Main specifications + 200 ppm/°C (typical)					
Insulation	Between input (BNC) and chassis, input		500 V DC, 30 MΩ or more					
resistance	(BNC) and output							
Withstand	Between input (BNC) ar	nd chassis, input	500 V AC for 1 minute					
voltage	(BNC) and output							

<sup>1.</sup> Based on country of use; power cords for Continental Europe, United States/Canada or China included. For other countries, applicable power cord can be selected.

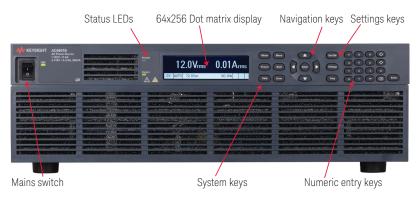
<sup>2.</sup> Set ATT to 'ON' in EXT-AC mode at all times.

<sup>3.</sup> The measurable range of voltage, current, and power is DC and 40 to 500 Hz. To improve measurement stability of an AC output, set the frequency to match the frequency of the external input signal.

<sup>4.</sup> When DC voltage is applied for EXT-AC mode or when a sine wave with distortion ratio of 0.1% or less is applied for EXT-DC mode.

## Just the Capability You Need

#### AC6801/2/3B front panel



#### AC6801B rear panel



Slot for optional GPIB (AC68GPBU) or Analog interface card (AC68BALGU)

AC power input
Based on country of use; power
cords for Continental Europe,
United States/Canada or China
included for AC6801B. For other
countries, applicable power cord
can be selected.

## AC6802B rear panel



AC power input. Power cord not included for AC6802B

Slot for optional GPIB (AC68GPBU) or Analog interface card (AC68BALGU)

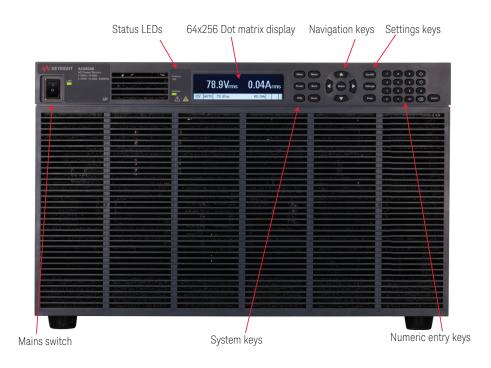
#### AC6803B rear panel



Slot for optional GPIB (AC68GPBU) or Analog interface card (AC68BALGU)

## Just the Capability You Need

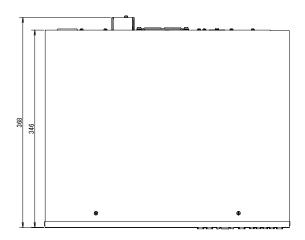
## AC6804B front panel

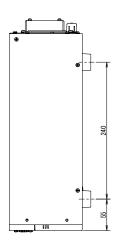


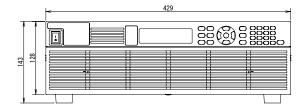
#### AC6804B rear panel



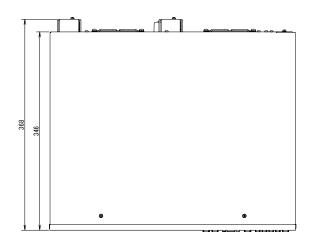
## Model AC6801B

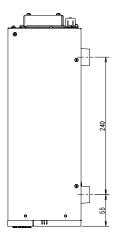


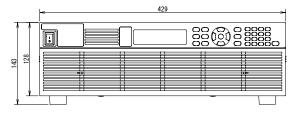




## Model AC6802B

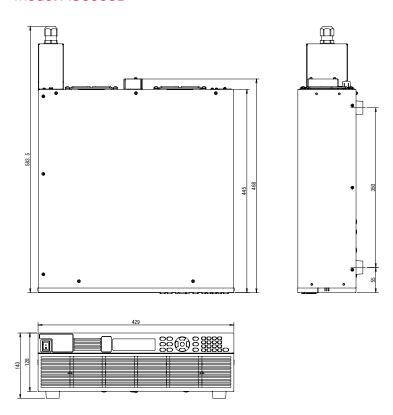






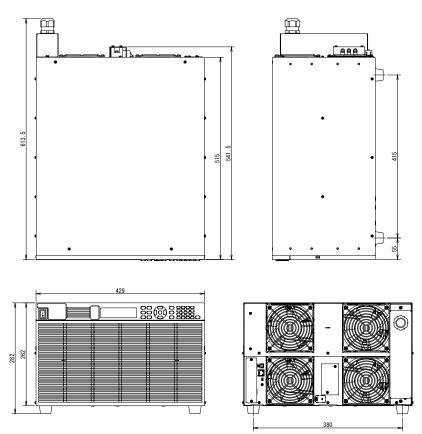
All dimensions in millimeters.

## Model AC6803B



All dimensions in millimeters.

#### Model AC6804B



All dimensions in millimeters.

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