

The coil driver is powered with a standard three-prong power cord that inserts into the AC Power Module on the rear panel. The unit can operate from a 90 to 264 VAC and a line frequency between 47 and 63 Hz. The AC power module contains the line fuse, which is a medium-blow type rated at 1 A / 250 V and measuring 5 × 20 mm.

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Current <sup>1</sup>	$i_b$	$R_{Load} < 1\Omega$	-3.0		+3.0	A
Voltage Input Range						
Differential	$V_i$		-3		+3	V
Common-Mode	$V_{CM}$		-7		+7	V
Input Impedance						
Differential	$Z_i$	DC Resistance		20		MΩ
Common-Mode	$Z_{CM1}, Z_{CM2}$	DC Resistance	9.99		10.1	MΩ
Accuracy				0.1		%
Zero-Point Offset		$V_i = 0$	-1		1	mA
Slope			0.999		1.001	A/V
Current Monitor						
Slope			0.99	1.00	1.01	V/A
Bandwidth <sup>2</sup>				16		kHz
Dynamic Performance <sup>3</sup>						
Full Power Bandwidth (-3 dB)		0 – 3 A		500		Hz
Step Response <sup>4</sup>				1		ms
Load Impedance for Stability						
DC Resistance	$R_{Load}$		2		6	Ω
Inductance			0.5		4	mH
Output Noise						
Integrated Broadband		10 Hz – 1 MHz		200	720	$\mu A_{RMS}$
Peak		10 Hz – 10 MHz		10	20	$\mu A_{RMS}$
Common Mode Rejection Ratio (CMRR)						
$f = 100$ Hz		$Z_0 = 100\Omega$		96		dB
$f = 1$ kHz				95		
$f = 10$ kHz				82		
$f = 100$ kHz				60		
AC Power Requirements						
Voltage			90		264	VAC
Frequency			47		63	Hz
Physical Dimensions		$h \times w \times d$		5.22 x 8.37 x 16		inches
				13.3 x 21.3 x 40.6		cm
Weight				10		lbs
				4.54		kg

<sup>1</sup> Output currents only specified for load resistances  $R_{LOAD}$  less than 1 Ω.

<sup>2</sup> Each current monitor output consists of a series 100 Ω resistor and 0.1 μF capacitor to the ground terminal. The bandwidth is only specified when connected to a high-impedance load, such as an oscilloscope input.

<sup>3</sup> Dynamic performance, including bandwidth and step response, depends on the inductance of the load.

<sup>4</sup> Values from 10% to 90% of the pulse height.