

General Table

Feature	Units	Specification
PWM switching frequency	kHz	22 ± 5% default on the motor
Switching method		Advanced Unipolar PWM
Current loop bandwidth	kHz	< 2.5
Current loop sampling rate	kHz	Up to 16; default 11
Velocity loop bandwidth	Hz	< 350
Velocity loop sampling rate	kHz	Up to 8; default 5.5
Position loop bandwidth	Hz	< 80

Feature	Units	Specification
Position loop sampling rate	kHz	Up to 4; default 2.75
Maximum heat sink temperature	°C (°F)	85 °C - 88 °C (185 °F - 190 °F)
Ambient operating temperature	°C (°F)	0 °C - 40 °C (32 °F - 104 °F)
Storage temperature	°C (°F)	-20 °C - 85 °C (-4 °F - +185 °F)
Maximum humidity	%	90% non-condensing
Maximum operating altitude	m (ft)	Up to 10,000 (30,000)
Protection level		

Harmonica Full Digital Servo Drive



Feature	Units	5/60	8/60	12/60	2/100	4/100	8/100	12/100	1/200	2/200	4/200	6/200
Minimum supply voltage	VDC	10			20				40			
Nominal supply voltage	VDC	50			85				170			
Maximum supply voltage	VDC	59			95				195			
Maximum continuous power output	W	250	400	650	200	320	640	1100	200	320	640	1100
Efficiency at rated power (at nominal conditions)	%	> 97										
Maximum output voltage		> 97% of DC bus voltage at f=22 kHz										
Auxiliary supply voltage	VDC	24 ± 20%										
Auxiliary power supply	VA	8										
Amplitude sinusoidal/D continuous current	A	5	8	13.3	2.5	4	8	13.3	1.25	2	4	6.6
Sinusoidal continuous RMS current limit (I _c)	A	3.5	5.7	9.4	1.8	2.8	5.7	9.4	0.9	1.4	2.8	4.7
Peak current limit	A	2 x I _c										
RMS output power without heatsink	%	100	50	20	100	50	20	20	100	50	20	20
Weight	g (oz)	150 g (5.3 ounces)										
Dimensions	mm (in)	82 x 25.4 x 75 (3.2" x 1.0" x 3.0")										
Digital in/Digital out/Analog in		6/2/1										
Mounting method		Wall mount ("Bookshelf") or DIN rail										