

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		



Cello Full Digital Servo Drive

Feature	Units	5/60	10/60	15/60	15RMS/60	30/60	3/100	10/100	15/100	15RMS/100	30/100	2/200	6/200	10/200	15/200	15RMS/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	240	480	720	1000	1440	260	800	1200	1700	2400	360	960	1600	2400	3400
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	12														
Amplitude sinusoidal/DC continuous current	A	5	10	15	21	30	3.3	10	15	21	30	2.25	6	10	15	21
Sinusoidal continuous RMS current limit (Ic)	A	3.5	7.1	10.6	15	21.2	2.3	7.1	10.6	15	21.2	1.6	4.2	7.1	10.6	15
Peak current limit	A	2 x Ic														
Output power without additional heatsink	%	100				75	100					100			75	50
Weight	g (oz)	640 g (22.6 ounces)														
Dimensions	mm (in)	150 x 25.4 x 105 (5.9" x 1.0" x 4.1")														
Digital in/Digital out/Analog in		10/5/2														
Mounting method		Wall Mount (on back or on side)														