

➤ TABLE OF STANDARD PROPERTIES OF USE AND MEASUREMENT

The properties defined in the table below, are set up according to the technical conditions of use and measurement. These properties are warranted within their variation range and in compliance with the standard technical conditions of use.

Properties LA75B-x	Standard technical conditions	Unit	Nominal values	Min. values	Max. values
Notes			x : number of channel		
Function			Linear amplifier		
Max. number of channels			2		
Cooling			Natural convection (Forced convection for 2 channels)		
Protection			Thermal		
Negative supply voltage	Standard environment	V	-36	-30.0	-40.0
Positive supply voltage	Standard environment	V	165	164	182
Min. input voltage	Standard environment	V	-1.2	-1.1	-1.3
Max. input voltage	Standard environment	V	7.7	7.6	7.9
Min. output voltage	Standard environment	V	-20	-19.0	-22.0
Max. output voltage	Standard environment	V	150	145.0	160.0
Gain	Standard environment	V/V	20	19.0	21.0
Max. output current		A	0.36	0.34	0.39
Max. output load capacitance		μF	400	360.0	440.0
Signal to noise ratio	Noise measurement conditions	dB	85	70.0	100.0
Unloaded output bandwidth (-3dB)		Hz	33000	29700	36300
Loaded Output bandwidth (-3dB)	Standard load	Hz	616	554.5	677.7
Input impedance		kOhms	10	9.5	10.5
Mass		kg	1	-	-
Dimensions		mm	10F wide, 3H high		

Option UC45	Standard technical conditions	Unit	Nominal values	Min. values	Max. values
Notes					
Function			Option on amplifier board - Numerical servo controller		
Size		mm	50*70		
Max. number of control channels			3 per board		
Sampling frequency		Hz	10000		
A/D converters			16 bit @ +/-10V 4 channels		
D/A converters			16 bit @ +/-10V 2 channels		
Computer interface			USB		
Filter cells	2nd order low-pass or stop-band filter @ [150 2000]Hz				

*Bandwidth settled according to your specifications; by default 1 Hz.

Properties LC75B	Standard technical conditions	Unit	Nominal values	Min. values	Max. values
Notes			-		
Function			Bipolar AC/DC linear converter		
Cooling			Forced air		
Protection			Thermal Overcurrent Overvoltage		
Main voltage	Standard main supply	VAC	230	207	253
Main frequency	Standard main supply	Hz	50	45	65
Negative output voltage	Standard environment	VDC	-36	-30,6	-39,6
Positive output voltage	Standard environment	VDC	165	151,8	179,9
Current limitation	Standard environment	A	0,60	0,57	0,63
Mass		g	680,00	-	-
Dimensions		mm	12F wide, 3H high	-	-

Properties SG75-x	Standard technical conditions	Unit	Nominal values	Min. values	Max. values
Notes			<i>x</i> : number of channel		
Fonction			Strain Gauges conditioner		
Max. number of channels			3		
Min. supply voltage		VDC	-15	-14,3	-15,8
Max. supply voltage		VDC	15	14,3	15,8
Min. output voltage		VDC	-12	-11,4	-12,6
Max. output voltage		VDC	12	11,4	12,6
Signal to noise ratio	Noise measurement conditions	dB	70	56,0	84,0
Output bandwidth (-3dB)*		Hz	2000	1600	2400
Mass		g	150	-	-
Dimensions		mm	6F wide, 3H high		

*Bandwidth settled according to your specifications

➤ PROPERTIES STANDARD TECHNICAL CONDITIONS OF USE AND MEASUREMENT

Quasistatic excitation	: AC voltage between -20 and 150 V at 1 Hz
Environment	: Ambient temperature (15-25°C) and dry air (Humidity < 50 % rH)
Standard main supply	: Main according to directive HD472; could be adapted to 110 VAC on request (full performances may not be attained below 95 VAC)
Noise measurement conditions	: Excitation 0.5 Vrms ; reading bandwidth 1 Hz to 1 kHz
Standard load	: Actuator APA from series S or SM : 1.55 µF (load test may be different)

Any technical conditions of use, different from those defined above, can lead to temporary or definitive alterations of properties. Thank you to contact CEDRAT TECHNOLOGIES before using actuators under non standard technical conditions.

➤ FACTORY TESTS CARRIED OUT

- Test 1: Load and discharge time
- Test 2: Linearity output voltage vs. input voltage

➤ EXTRA FACTORY TESTS

- Test 3: Gain and linearity in closed loop
- Test 4: Step response in closed loop (sensor output voltage versus command voltage)
- Test 5: Bode diagram

➤ AVAILABLE OPTIONS

- [UC] Servo controller
- [PP] Push-pull