

➤ 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 LA75A-x	Standard technical conditions	Unit	Nominal values	Min. values	Max. values
Notes			<i>x : number of channel</i>		
Function			<i>Linear amplifier</i>		
Max. number of channels			3		
Cooling			<i>Natural convection (Forced convection for 3 channels)</i>		
Protection			<i>Thermal</i>		
Negative supply voltage	<i>Standard environment</i>	V	-36	-30,0	-40,0
Positive supply voltage	<i>Standard environment</i>	V	165	164,0	182,0
Min. input voltage	<i>Standard environment</i>	V	-1,2	-1,3	-1,1
Max. input voltage	<i>Standard environment</i>	V	7,7	7,6	7,9
Min. output voltage	<i>Standard environment</i>	V	-20	-19,0	-22,0
Max. output voltage	<i>Standard environment</i>	V	150	145,0	160,0
Gain	<i>Standard environment</i>	V/V	20	19,0	21,0
Max. output current		A	0,09	0,08	0,10
Max. output load capacitance		μF	400	360,0	440,0
Signal to noise ratio	<i>Noise measurement conditions</i>	dB	85	70,0	100,0
Unloaded output bandwidth (-3dB)		Hz	33000	29700	36300
Loaded Output bandwidth (-3dB)	<i>Standard load</i>	Hz	154	138,6	169,4
Input impedance		kOhms	10	9,5	10,5
Mass		g	800	-	-
Dimensions		mm	10F wide, 3H high		

Option SC75	Standard technical conditions	Unit	Nominal values	Min. values	Max. values
Notes			<i>Option on amplifier board</i>		
Function			<i>Servo controller</i>		
Signal to noise ratio	<i>Noise measurement conditions</i>	dB	80	68	92
Output bandwidth*		Hz	2000	1800	2200
Accuracy (closed loop)	<i>Standard environment</i>	%	0,1	0,07	0,13

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

Properties LC75A	Standard technical conditions	Unit	Nominal values	Min. values	Max. values
Notes			-		
Function			<i>Bipolar AC/DC linear converter</i>		
Cooling			<i>Natural convection</i>		
Protection			<i>Thermal Overcurrent Overvoltage</i>		
Main voltage	<i>Standard main supply</i>	VAC	230	207	253
Main frequency	<i>Standard main supply</i>	Hz	50	45	65
Negative output voltage	<i>Standard environment</i>	VDC	-36	-30,6	-39,6
Positive output voltage	<i>Standard environment</i>	VDC	165	151,8	179,9
Current limitation	<i>Standard environment</i>	A	0,12	0,114	0,126
Mass		g	680	-	-
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
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

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