

➤ 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 SP75B-x | Standard technical conditions | Unit | Nominal values | Min. values | Max. values |
|------------------------------|-------------------------------|-------|-----------------------|----------------|----------------|
| Notes | | | x : number of channel | | |
| Function | | | Switching power stage | | |
| Max. number of channels | | | 2 | | |
| Cooling | | | Forced air | | |
| Option | | | RS422 communication | | |
| Negative supply voltage | Standard environment | V | -20 | -20,0 | -24,0 |
| Positive supply voltage | Standard environment | V | 150 | 150,0 | 156,0 |
| Input voltage | Standard environment | V | TTL signal / CMOS | | |
| Min. output voltage | Standard environment | V | -20 | -20 | -24,0 |
| Max. output voltage | Standard environment | V | 150 | 150 | 156,0 |
| Max. output current | | A | 3,00 | 3,00 | 3,30 |
| Max. output load capacitance | | μF | 400 | 360,0 | 440,0 |
| Loaded Output bandwidth | Standard load | Hz | 8065 | 7258 | 8871 |
| Input impedance | | kOhms | 10 | 9,5 | 10,5 |
| Mass | | g | 500 | - | - |
| Dimensions | | mm | 14F wide, 3H high | | |

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

| Properties LC75C | 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 | 190 | 250 |
| Main frequency | Standard main supply | Hz | 50 | 45 | 65 |
| Negative output voltage | Standard environment | VDC | -36 | -30,0 | -40,0 |
| Positive output voltage | Standard environment | VDC | 165 | 160,0 | 180,0 |
| Current limitation | Standard environment | A | 2,40 | 2,28 | 2,52 |
| Mass | | g | 680 | - | - |
| Dimensions | | mm | 12F wide, 3H high | - | - |

| Properties SG75-x | Standard technical conditions | Unit | Nominal values | Min. values | Max. values |
|--------------------------|-------------------------------|------|---------------------------|----------------|----------------|
| Notes | | | x : 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: Thermal test at full load

➤ AVAILABLE OPTIONS

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