

## CompactLogix System Specifications

### Using This Appendix

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### CompactLogix Controller

Description	1769-L20	1769-L30
Communication ports	(1) RS-232	(2) RS-232
User memory	64K bytes	256K bytes
Maximum number of I/O modules supported	8 I/O modules	16 I/O modules
Maximum number of I/O banks supported	2 banks	3 banks
Backplane current	600 mA at +5V dc 0 mA at +24V dc 3W	800 mA at +5V dc 0 mA at +24V dc 4W
Operating temperature	0° to +60°C (+32° to +140°F)	
Storage temperature	-40° to +85°C (-40° to +185°F)	
Relative humidity	5% to 95% non-condensing	
Vibration	Operating: 10 to 500 Hz, 5G, 0.030 in. peak-to-peak	
Shock	Operating: 30G, 11 ms, panel mounted (20G, 11 ms, DIN rail mounted) Non-operating: 40G, panel mounted (30G, DIN rail mounted)	
Power supply distance rating	4 (The controller must be within 4 slot positions of the power supply.)	
Shipping weight	325 g (0.715 lbs)	362 g (0.796 lbs)
Battery	1747-BA	
Programming cable	1747-CP3 or 1756-CP3	
Agency certification	<ul style="list-style-type: none"> <li>• C-UL certified (under CSA C22.2 No.142)</li> <li>• UL 508 listed</li> <li>• CE and C-Tick compliant for all applicable directives</li> </ul>	
Hazardous environment class	Class I, Division 2, Hazardous Location, Groups A, B, C, D (UL 1604, C-UL under CSA C22.2 No. 213)	
Radiated and conducted emissions	EN50081-2 Class A	

Description	1769-L20	1769-L30
Electrical /EMC:	<i>The unit has passed testing at the following levels:</i>	
ESD Immunity (IEC61000-4-2)	4 kV contact, 8 kV air, 4 kV indirect	
Radiated Immunity (IEC61000-4-3)	10 V/m, 80 to 1000 MHz, 80% amplitude modulation, +900 MHz keyed carrier	
Fast Transient Burst (IEC61000-4-4)	2 kV, 5 kHz	
Surge Immunity (IEC61000-4-5)	1 kV galvanic gun	
Conducted Immunity (IEC61000-4-6)	10V, 0.15 to 80 MHz <sup>(1)</sup>	

(1) Conducted Immunity frequency range may be 150 kHz to 30 MHz if the Radiated Immunity frequency range is 30 MHz to 1000 MHz.

**IMPORTANT**

The amount of memory that the software displays includes both the user available memory and the memory reserved for overhead. Certain operations dynamically allocate and de-allocate user-available memory.

**1747-BA Battery**

The CompactLogix controller uses the 1747-BA battery:

Battery	1747-BA containing 0.59g lithium
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