

CompactLogix System Specifications

Using This Appendix

For information about:	See page
CompactLogix controller specifications	A-1
1747-BA battery specifications	A-2
Dimensions	A-3

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"> • C-UL certified (under CSA C22.2 No.142) • UL 508 listed • CE and C-Tick compliant for all applicable directives 	
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 ⁽¹⁾	

(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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