



LC Series Features

- Isolated from input to output and to the case.
- Cost Effective.
- Aluminum enclosure.
- Constructed to a high standard to tolerate adverse environmental conditions.
- Durable for vehicular applications.
- Supports battery supply variations.
- Particularly well suited for supplying power from a battery source to radio communication equipment and modems.
- Capable of supplying transmit current for radios.
- 100- and 200-Watt units have high and low voltage windows for shutoff, to protect the equipment being supplied from overvoltage damage.
- Remote low power switch on all units except LC40 series—can also be wired for direct connection.
- Fully protected.

EC Series Features

- Available EC version of the 100-Watt range features a resin filled enclosure for more extreme conditions (please call for details).

Common specifications and characteristics for LC Series Converters

Operating Temperature Range: -10 to +40° C.

Efficiency: >80%.

Switching Frequency: 50 KHz.

All units are CE Marked.

Conformance to: EMC EN 55022, EN50081-1, EN50082-1, FCC Class B, UL 1950.

Input Protection: All units: Reverse polarity, with additional protection as shown on next page.

Output Protection: See next page.

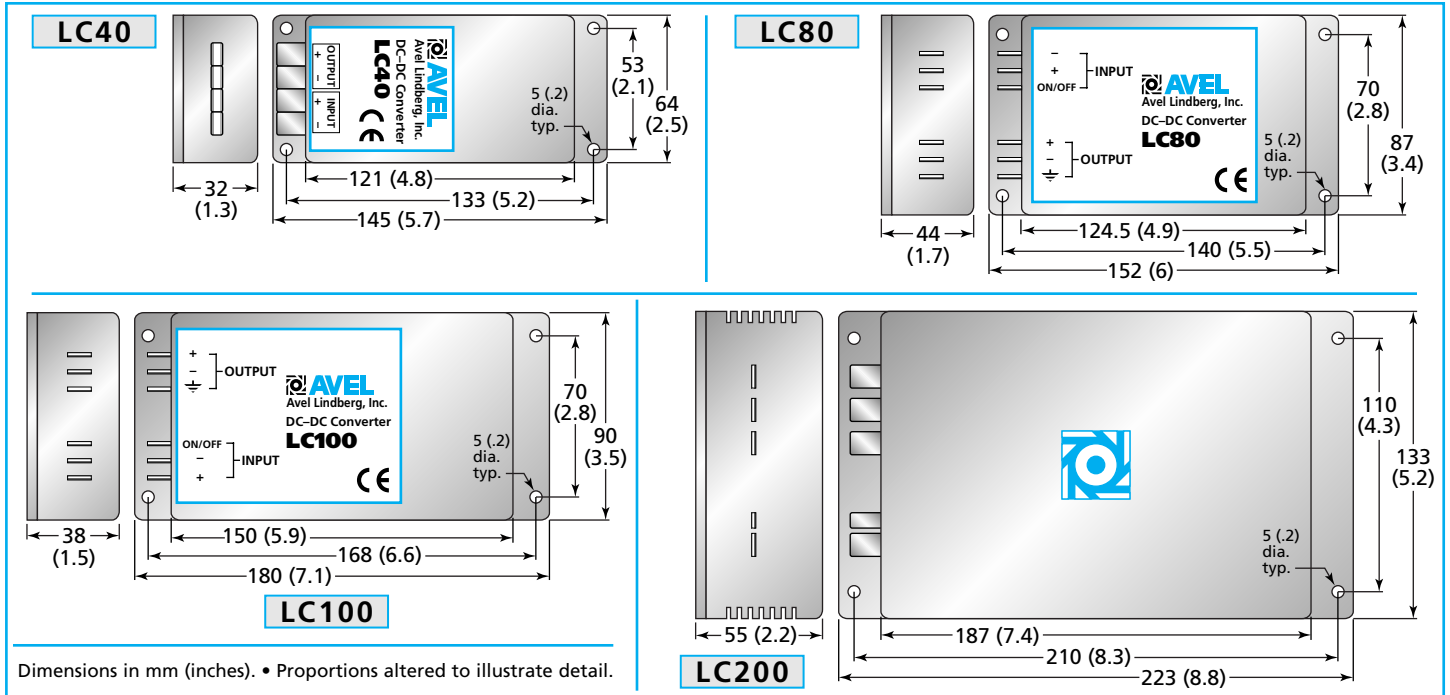
Mounting: All mounting holes 5 mm (.2") diameter.

Weight: LC40: .25 Kg / .6 lbs; LC80: .35 Kg / .8 lbs; LC100: .5 Kg / 1.1 lbs; LC200: 1.2 Kg / 2.6 lbs.

Remote Switch: All units except LC40.

Switch connection: To use remote switch, connect the remote input to one side of switch, and the + input to the other side. If switch is not required, the switch input must be connected to + input.

Nominal input voltage must be applied to remote switch line to turn unit on.



Converter Specifications—LC Series

Input Voltage, DC		Output Voltage	Output Current		Output Voltage Regulation		Output Ripple	No-Load Input	Protection	AVEL P/N
Nominal	Range	(Nominal)	Continuous	Max. ⁽¹⁾	0–10% ⁽²⁾	0–100% ⁽²⁾	(mV)	(mA)	Input / Output	
12.0	11–15	13.7 ±.2	5A ⁽³⁾	6A / 30	0.4V	0.2V	<60	<100	A / A	LC100/12/12
12.0	11–15	13.7 ±.2	6A ⁽³⁾	10A / 15	0.4V	0.2V	<60	<100	A / B	LC100/12/12F
12.0	11–15	13.7 ±.2	12A ⁽³⁾	20A / 15	0.4V	0.2V	<50	<100	A / C	LC200/12/12
12.0	11–15	24.0 ±.5	2.5A ⁽³⁾	3A / 30	0.4V	0.2V	<60	<100	A / D	LC100/12/24
12.0	11–15	24.0 ±.5	3A ⁽³⁾	5A / 15	0.4V	0.2V	<60	<100	A / E	LC100/12/24F
12.0	11–15	24.0 ±.5	6A ⁽³⁾	10A / 15	0.4V	0.2V	<90	<100	A / F	LC200/12/24
24.0	20–35	13.6 ±.3	3A ⁽⁴⁾	4A / 15	0.4V	0.2V	<100	<30	B / G	LC40/24/12
24.0	18–32	13.7 ±.3	2A ⁽³⁾	7A / 4	0.2V	0.5V	<100	<20	B / B	LC80/24/12
24.0	18–33	13.7 ±.2	6A ⁽³⁾	10A / 15	0.4V	0.2V	<40	<100	C / B	LC100/24/12
24.0	18–32	13.7 ±.2	12A ⁽³⁾	20A / 15	0.4V	0.2V	<50	<100	C / C	LC200/24/12
24.0	18–32	24.0 ±.5	3A ⁽³⁾	5A / 15	0.4V	0.2V	<50	<100	C / E	LC100/24/24
24.0	18–32	24.0 ±.5	6A ⁽³⁾	10A / 15	0.4V	0.2V	<50	<85	C / F	LC200/24/24
48.0	29–59	24.0 ±.5	2.5A ⁽⁴⁾	3A / 30	0.2V	0.1V	<100	<20	B / E	LC80/48/24
48.0	29–59	13.7 ±.3	2A ⁽⁴⁾	10A / 4	0.2V	0.5V	<100	<20	B / B	LC80/48/12
48.0	36–54	13.7 ±.2	12A ⁽³⁾	20A / 15	0.4V	0.2V	<50	<50	D / C	LC200/48/12
48.0	36–54	24.0 ±.5	6A ⁽³⁾	10A / 15	0.4V	0.2V	<50	<50	D / F	LC200/48/24

⁽¹⁾ Maximum current for 1:4 duty cycle, limited to indicated number of minutes. ⁽²⁾ Percentage of load.

⁽³⁾ Current at 40° C. ⁽⁴⁾ Current at 30° C.

F at end of part number indicates version with flying lead wires (250 mm / 12" long); all other units have 1/4" tabs.

Input Protection (in addition to reverse polarity):

- A:** Low-voltage switch off at approximately 9.0 V; High-voltage switch off at approximately 15.0 V.
- B:** Low-voltage switch off at approximately 18.0 V.
- C:** Low-voltage switch off at approximately 18.0 V; High-voltage switch off at approximately 34.0.
- D:** Low-voltage switch off at approximately 36.0 V; High-voltage switch off at approximately 68.0.

Output Protection:

- A:** Electronic fold back current limit at 6.5 A.
- B:** Electronic fold back current limit at 10.5 A.
- C:** Electronic fold back current limit at 21 A.
- D:** Electronic fold back current limit at 3.5 A.
- E:** Electronic fold back current limit at 5.3 A.
- F:** Electronic fold back current limit at 11 A.
- G:** Resettable thermal fuse.