



### XR Series Features

- Non-isolated.
- Economical.
- Aluminum enclosure (non-filled).
- Durable for vehicular applications.
- Ideal for typical mobile environments.
- Continuous current ratings.
- Supports battery supply variations.
- Remote low-power switch—can also be wired for direct connection.
- Fully protected.

### Common specifications and characteristics

**Operating Temperature Range:** -10 to +55° C.

**Efficiency:** 90%.

**Switching Frequency:** 30 KHz.

**All units are CE Marked.**

**Conformance to:** EMC EN 55022, EN50081-1, EN50082-1, FCC Class B, UL1950.

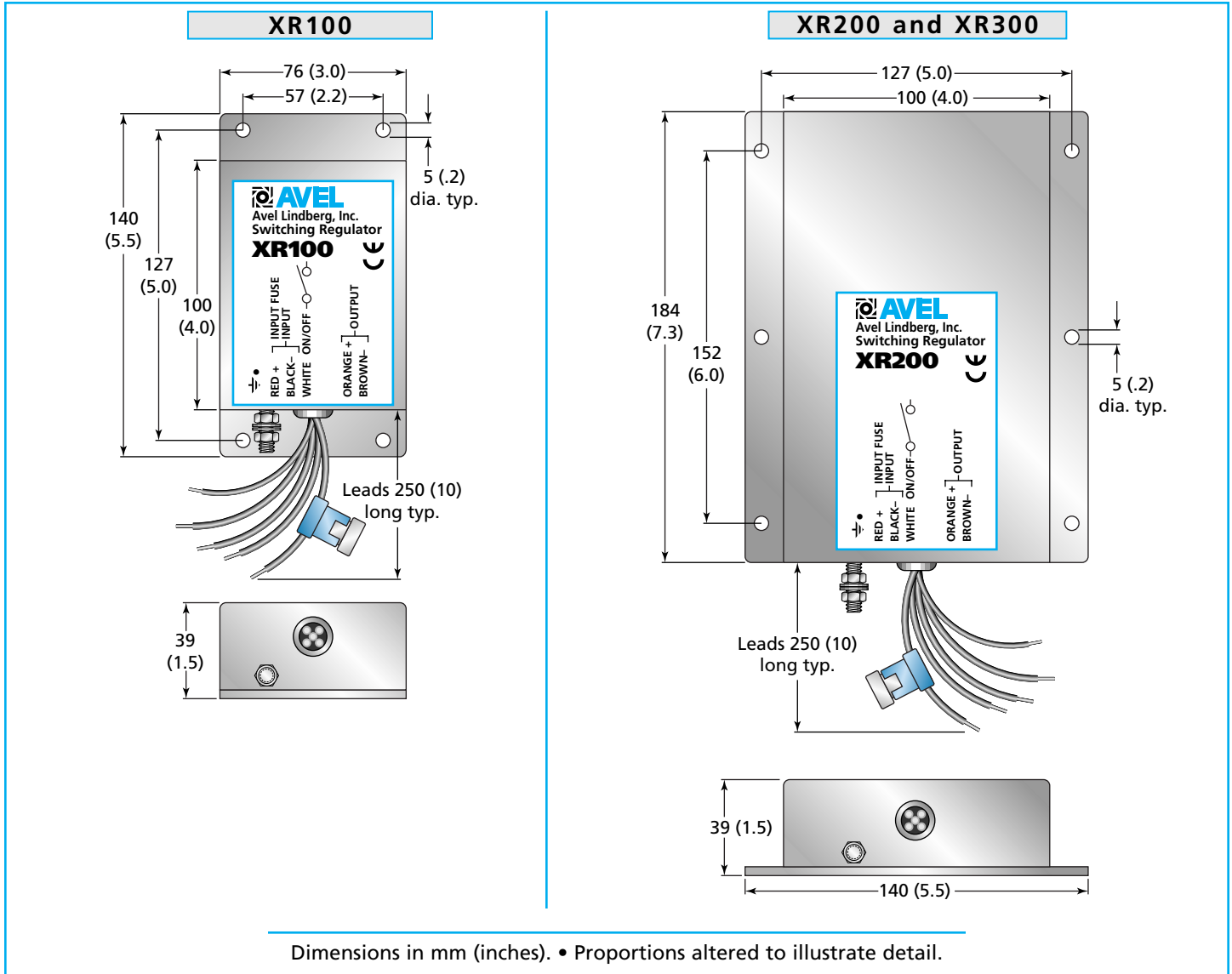
**Input Protection (fuse):** XR100: 7.5 A; XR200: 15 A; XR300: 20 A.

**Output Protection:** Constant current limit at 115% of full load; overvoltage crowbar at 17 ±1 V.

**Remote power switch.**

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

**Weight:** XR100: .4 Kg / .9 lbs.; XR200 and XR300: .9 Kg / 2 lbs.



**Switching Regulator Specifications—XR Series**

Input Voltage, DC		Output Voltage (Nominal)	Output Current		Output Voltage Regulation		Output Ripple (mV)	No-Load Input (mA)	AVEL P/N
Nominal	Range		Continuous <sup>(2)</sup>	Max. <sup>(1)</sup>	0-10% <sup>(3)</sup>	0-100% <sup>(3)</sup>			
24.0	18-35	13.7 ±.2	8A	—	0.4	0.1	<50	4	XR100/24/12
24.0	18-35	13.7 ±.2	10A	16A	0.4	0.1	<50	8	XR200/24/12
24.0	18-35	13.7 ±.2	15A	25A	0.4	0.1	<50	8	XR300/24/12

<sup>(1)</sup> Maximum current for 1:4 duty cycle, 20 minute limit at 25° C.

<sup>(2)</sup> At 40° C.

<sup>(3)</sup> Percentage of load.

**Switch connection:** To use remote switch, connect white (remote input) to one side of switch and + (red) lead to other side of switch.

If switch is not required, white (remote input) must be connected to + (red). Nominal input voltage must be applied to remote switch line to turn unit on.