TR Series Features

- Non-isolated.
- Cost Effective.
- Epoxy filled Aluminum case.
- Extremely rugged and well suited for marine and other demanding environments.
- High tolerance for shock and vibration.
- Continuous current ratings.
- Supports battery supply variations.
- Remote low-power switch—can also be wired for direct connection (not available on TR100/12/24).
- 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, UL 1950.

Input Protection (fuse): TR100/12/24: 20 A; TR100/24/12: 7.5 A; TR200/24/12: 5 A; TR300/24/12: 20 A.

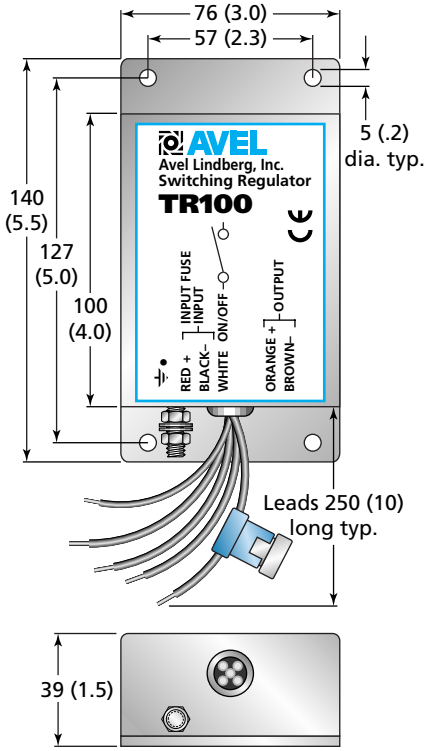
Remote Power Switch: All models except TR100/12/24.

Output Protection:
24 V input units: constant current limit at 115% of full load.
TR100/12/24: 5 A output fuse.
24- to 12-volt units: Overvoltage crowbar at 17 ±1 V.

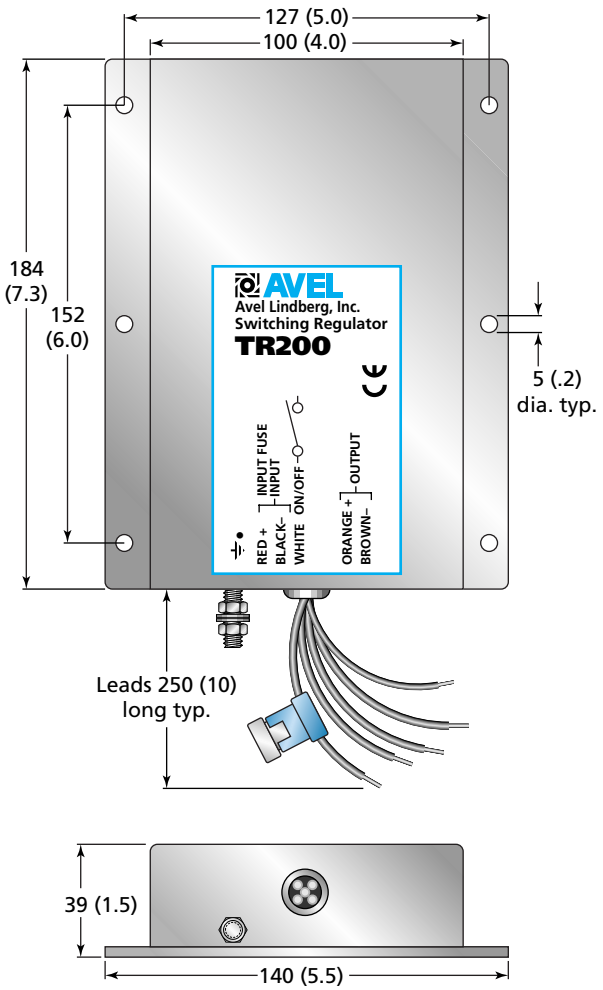
Mounting: All mounting holes 5 mm (.2") diameter.

Weight: TR100: .7 Kg / 1.5 lbs. TR200 and TR300: 1.5 Kg / 3.3 lbs.

TR100



TR200 and TR300



Dimensions in mm (inches). • Proportions altered to illustrate detail.

Switching Regulator Specifications—TR Series

Input Voltage, DC		Output Voltage	Output Current		Output Voltage Regulation		Output Ripple	No-Load Input	AVEL P/N
Nominal	Range	(Nominal)	Continuous	Max.	0–10%[2]	0–100%[2]	(mV)	(mA)	
12.0	10–18	24.0 ±.5	5A	12A[1]	0.4	0.2	<100	8	TR100/12/24
24.0	18–35	13.7 ±.2	8A	8A	0.4	0.1	<50	4	TR100/24/12
24.0	18–35	13.7 ±.2	16A	16A	0.4	0.1	<50	8	TR200/24/12
24.0	18–35	13.7 ±.2	25A	25A	0.4	0.1	<50	8	TR300/24/12

[1] 10 milliseconds.

[2] 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.