

## General Specifications

Temperature ranges	<ul style="list-style-type: none"> <li>- Operating</li> <li>- Case temperature</li> <li>- Storage</li> </ul>	-40°C to +75°C +100°C max. -55°C to +125°C
Thermal consideration	<ul style="list-style-type: none"> <li>- Mounting surface</li> <li>- Derating and temperature test point</li> </ul>	Optimize thermal coupling to heat conducting surface. Not to mount on flammable surface! see application note
Over temperature protection		at 110°C (auto restart)
Shock, vibration and thermal shock	<ul style="list-style-type: none"> <li>- Vibration</li> <li>- Shock</li> </ul>	acc. MIL-STD-810F 7.76G / 3 axis / random wavforms / 1h each axis 50G / 3 axis / terminal-peak sawtooth / 11ms
Humidity (non condensing)		95 % rel H max.
Reliability, calculated MTBF (MIL-HDBK-217F, at +70°C, ground benign)		>495'000 h
Isolation voltage (60 s)	<ul style="list-style-type: none"> <li>- Input to Output</li> <li>- Input/Output to Case</li> </ul>	2250 VDC (functional insulation) 1600 VDC
Isolation capacitance	- Input to Output	3500 pF max.
Isolation resistance	- Input to Output (500 VDC)	>1 GOhm min.
Switching frequency		203 – 330 kHz depending on model (puls width modulation)
Safety standards		UL 60950-1, IEC/EN 60950-1
Safety approvals	<ul style="list-style-type: none"> <li>- UL/cUL 60950-1</li> <li>- CB test certificate</li> <li>- Railway</li> <li>- Certification documents</li> </ul>	<a href="http://www.ul.com">www.ul.com</a> -> certifications -> File e188913 IEC 60950-1 EN 50155 <a href="http://www.tracopower.com/overview/tep150wi">www.tracopower.com/overview/tep150wi</a>
Remote On/Off	<ul style="list-style-type: none"> <li>- positive logic (standard)</li> <li>- negative logic (option -N)</li> <li>- Off idle current:</li> </ul>	<ul style="list-style-type: none"> <li>- On: 3 to 12 VDC or open circuit</li> <li>- Off: 0 to 1.2 VDC or short circuit pin 5 and 3</li> <li>- On: 0 to 1.2 VDC or short circuit pin 5 and 3</li> <li>- Off: 3 to 12 VDC or open circuit 3 mA</li> </ul>
Environmental compliance	<ul style="list-style-type: none"> <li>- Reach</li> <li>- RoHS</li> <li>- Flamability identified acc. EN 45545-2</li> </ul>	<a href="http://www.tracopower.com/info/reach-declaration.pdf">www.tracopower.com/info/reach-declaration.pdf</a> RoHS directive 2011/65/EU <a href="http://www.tracopower.com/info/en45545-declaration.pdf">www.tracopower.com/info/en45545-declaration.pdf</a>

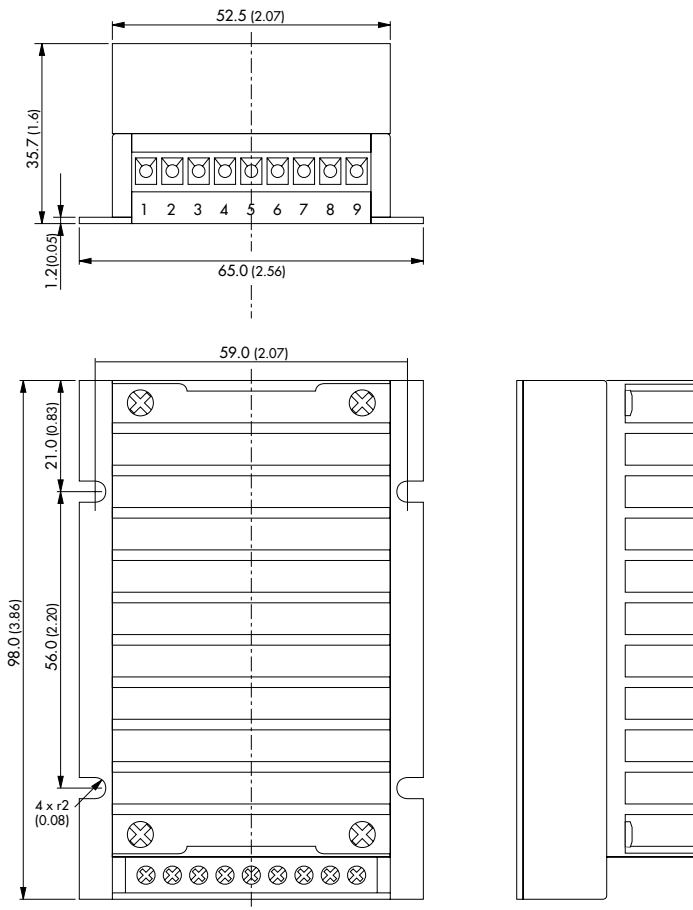
## Physical Specifications

Casing material	metal
Potting material	silicone (UL 94V-0 rated)
Case protection	IP 50 (in accordance to IEC/EN 60529)
Weight	300 g (10.6 oz)

**Application note:** [www.tracopower.com/overview/tep150wi](http://www.tracopower.com/overview/tep150wi)

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

**Outline Dimensions**



Pin Connection		
pin	function	recommended wire
1	+ Vin	14 - 16 AWG
2	+ Vin	14 - 16 AWG
3	- Vin	14 - 16 AWG
4	- Vin	14 - 16 AWG
5	Remote On/Off	14 - 24 AWG
6	+ Vout	14 - 16 AWG
7	- Vout	14 - 16 AWG
8	Trim	14 - 24 AWG
9	Trim	14 - 24 AWG

Weight: 300 g (10.6oz)

Dimensions in [mm], ( ) = Inch  
Mounting slot tolerance:  $\pm 0.25$  ( $\pm 0.001$ )  
Case tolerances:  $\pm 0.5$  ( $\pm 0.02$ )