

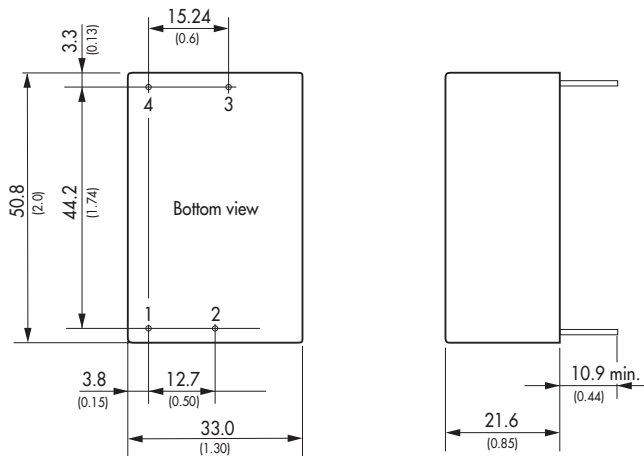
## General Specifications

|                                                          |                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                        |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature ranges                                       | <ul style="list-style-type: none"> <li>– Operating</li> <li>– Storage (non operating)</li> </ul>                                                                                                                                                                                                                    | –25°C to +50°C max.<br>–25°C to +85°C                                                                                                                                                                                                                  |
| Derating                                                 |                                                                                                                                                                                                                                                                                                                     | 5 %/K above +40°C                                                                                                                                                                                                                                      |
| Temperature coefficient                                  |                                                                                                                                                                                                                                                                                                                     | 0.02 %/K                                                                                                                                                                                                                                               |
| Humidity (non condensing)                                |                                                                                                                                                                                                                                                                                                                     | 85 % rel. H max.                                                                                                                                                                                                                                       |
| Efficiency                                               |                                                                                                                                                                                                                                                                                                                     | 83 % typ.                                                                                                                                                                                                                                              |
| Switching frequency                                      |                                                                                                                                                                                                                                                                                                                     | 100 kHz typ. (fixed)                                                                                                                                                                                                                                   |
| Isolation voltage                                        | – Input/Output                                                                                                                                                                                                                                                                                                      | 4'000 VAC                                                                                                                                                                                                                                              |
| Isolation resistance                                     | – Input/Output                                                                                                                                                                                                                                                                                                      | 100 MOhm (500 VDC)                                                                                                                                                                                                                                     |
| Isolation capacitance                                    | – Input/Output                                                                                                                                                                                                                                                                                                      | 4'700 pF                                                                                                                                                                                                                                               |
| Electromagnetic compatibility (EMC), Emissions           |                                                                                                                                                                                                                                                                                                                     | EN 55022, level B, FCC Part 15 level B<br>UL/EN 60601-1-2 (for medical equipment)                                                                                                                                                                      |
| Electromagnetic compatibility (EMC), Immunity            | <ul style="list-style-type: none"> <li>– Electrostatic discharge ESD</li> <li>– RF field susceptibility</li> <li>– Electrical fast transients / bursts on mains line</li> <li>– Surge</li> <li>– Immunity to conducted RF disturbances</li> <li>– Power frequency field immunity</li> <li>– Voltage sags</li> </ul> | IEC/EN 60601-1-2<br>IEC/EN 61000-4-2, 8 kV/8 kV<br>IEC/EN 61000-4-3, 3 V/m<br>IEC/EN 61000-4-4, 2 kV<br>IEC/EN 61000-4-5, 1 kV<br>IEC/EN 61000-4-6, 10 V/m<br>IEC/EN 61000-4-8, 3 A/m<br>IEC/EN 61000-4-11                                             |
| Protection class                                         |                                                                                                                                                                                                                                                                                                                     | class II (in closed cabinets)                                                                                                                                                                                                                          |
| Safety standards                                         | <ul style="list-style-type: none"> <li>– Information technology equipment</li> <li>– Industrial control equipment</li> <li>– Medical equipment*</li> </ul>                                                                                                                                                          | IEC/EN 60950-1, UL 60950-1,<br>CSA-C22.2 No. 60950-1-03<br>UL/cUL 508 (chassis mount version only)<br>IEC/EN 60601-1, ed.3.0 (for 2 x MOOP),<br>UL 60601-1<br>no re-approval according latest medical<br>standards scheduled!                          |
| Safety approvals                                         | <ul style="list-style-type: none"> <li>– CB certificates</li> <li>– UL approvals for UL 60950-1 and UL 60601</li> <li>– UL approval for UL 508</li> </ul>                                                                                                                                                           | <a href="http://www.tracopower.com/overview/tmt">www.tracopower.com/overview/tmt</a><br><a href="http://www.ul.com">www.ul.com</a> -> certifications -> File: e188913<br><a href="http://www.ul.com">www.ul.com</a> -> certifications -> File: e322109 |
| Reliability, calculated MTBF, at +25°C acc. to IEC 61709 |                                                                                                                                                                                                                                                                                                                     | >1.8 Mio h.                                                                                                                                                                                                                                            |
| Environment                                              | <ul style="list-style-type: none"> <li>– Vibration</li> <li>– Shock</li> </ul>                                                                                                                                                                                                                                      | 3 axes, sine sweep, 0.5 mm,<br>10 – 55Hz, 1 oct. / min, 30 min.<br>20 g (3 directions each 3 times)                                                                                                                                                    |
| casing                                                   |                                                                                                                                                                                                                                                                                                                     | plastic with silicone rubber compound<br>(UL 94V-0 rated)                                                                                                                                                                                              |
| Environmental compliance                                 | <ul style="list-style-type: none"> <li>– Reach</li> <li>– RoHS</li> </ul>                                                                                                                                                                                                                                           | <a href="http://www.tracopower.com/overview/tmt">www.tracopower.com/overview/tmt</a><br>RoHS directive 2011/65/EU                                                                                                                                      |
| Soldering temperature                                    |                                                                                                                                                                                                                                                                                                                     | 265°C max. / 10 sec.                                                                                                                                                                                                                                   |

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

## Outline Dimensions

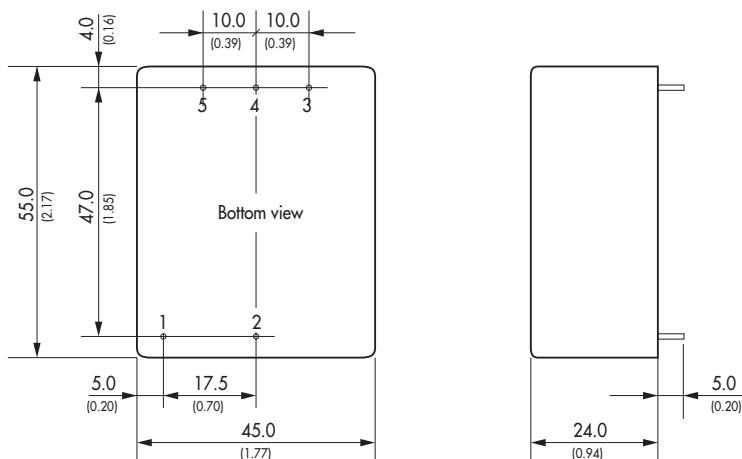
### TMT 10 models



| Connection |        |
|------------|--------|
| Pin        |        |
| 1          | AC in  |
| 2          | AC in  |
| 3          | -V out |
| 4          | +V out |

Weight: 52 g (1.8 oz)

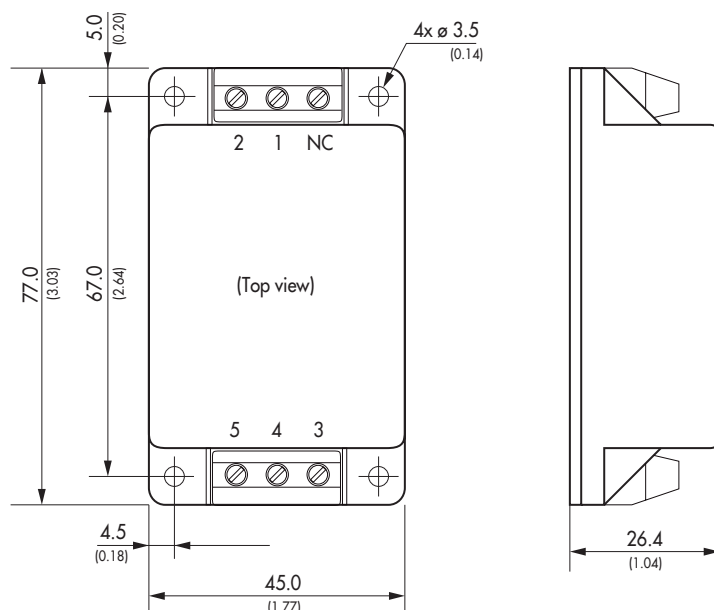
### TMT 15 models with solder pins



Weight: 75 g (2.6 oz)

| Connection |            |        |
|------------|------------|--------|
| Pin        | Single     | Dual   |
| 1          | AC in      | AC in  |
| 2          | AC in      | AC in  |
| 3          | -V out     | -V out |
| 4          | No pin/con | Common |
| 5          | +V out     | +V out |

### TMT 15C models with screw terminal block



Weight: 90 g (3.2oz)

Dimensions in [mm], ( ) = Inches  
Case tolerances:  $\pm 1.0$  ( $\pm 0.04$ )  
Pin pitch tolerance:  $\pm 0.5$  ( $\pm 0.02$ )  
Mounting hole tolerance:  $\pm 0.5$  ( $\pm 0.02$ )